

The



HEMIST AND DRUGGIST

or RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3367
XLII

AUGUST 19, 1944

Annual Subscription (with
Diary) 25/- Single copies 9d.

Interesting Events in Pharmacy, No. 30



ANTHONY VAN
LEEWENHOEK

DELFT 1632.....1723

THE FATHER OF SCIENTIFIC MICROSCOPY

One of Holland's greatest sons, he was far in advance of his times. He triumphantly refuted such prevalent ignorance as "spontaneous generation," confirmed Harvey's work by discovering the missing link of capillary circulation, and by his work on the anatomy of insects and the structure of plants laid the foundations to scientific method in biological research.

BURGOYNE BURBIDGES

Established 1741 & COMPANY LIMITED, LONDON. E.6

salute our Dutch allies who to-day play their part in helping to destroy the modern Nazi resurgence of ignorance and brute stupidity.

TAKA-DIASTASE

PARKE, DAVIS & CO. wish to announce that they now have supplies of Taka-Diastase, and that the following products are available:—

Taka-Diastase Tablets $2\frac{1}{2}$ grains

Taka-Diastase & Pepsin Compound Tablets

**Taka-Diastase, Pepsin & Pancreatin Tablets
(C.C.T. 296)**

Each of the above tablets is supplied in bottles of 25 and 100.

Taka-Diastase Sedative Elixir (No. 198)

In bottles of 4 and 16 fluid ounces.

Taka-Diastase Liquid

In bottles of 4 and 16 fluid ounces.

Takazyma

In jars containing approximately 2 ounces.

**PARKE, DAVIS & CO.
50 Beak Street, London, W.1**

Inc. U.S.A., Liability Ltd.



ton Bulletin No. 24

P.A.T.A.

'FIRST COME—FIRST SERVED'

itherto we have been able to fill all orders within a reasonable time of
pt, but owing to transport difficulties there is now some delay in deliveries
s of raw materials and dispatches to customers.

hemists report difficulties in getting supplies from wholesalers, parti-
lly of Milton Denture Powder. Wholesalers have co-operated with us
rrying additional stocks where these have been available, but the same
ulties arise now in connection with our dispatches to them and their
tches to you.

ou may, therefore, have to wait for deliveries from wholesalers, as
as from us, though every effort is being made to reduce the period
lay.

eanwhile, direct orders will be executed by us as quickly as possible and
tation as received. **But please order early to avoid running out of stock.**
ut in the London area it is advisable to allow a month for the dispatch
elivery of orders. **Look at your stocks now.** It's a matter of "First Come
st Served."

MILTON PRODUCTS

Milton Antiseptic 8d. and 1/1½d.

Milton Denture Powder 1/3d. and 2/2d.

Milton Ointment 7d.

Milton Dental Cream 1/2d.

(The above prices include Purchase Tax)

Milton Nasal Sprays 3/6d.

(Free of Tax)

All Milton Products may be included in the £2 and £5 Bonus Parcels.

n Antiseptic Ltd., Chapel Lane, Sands, High Wycombe, Bucks



BIOLOGICAL PREPARATION

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATIONS

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained. THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

			(inclusive of Tax)	CHEMISTS' PRICE		
				Per unit	Purchase Tax	Per dozen
ANTIPEOL						
OINTMENT	4 oz. tube	..	..	6/8½	4/2½ + 8½	50/5 +
	40 gr. "	..	..	3/4½	2/1½ + 4½	25/3 +
	20 gr. "	..	..	1/10½	1/2 + 2½	14/- +
LIQUID	40 c.c. bottle	..	..	3/4½	2/1½ + 4½	25/3 +
OPHTHALMO-ANTIPEOL						
20 gr. Nozzled Tube	..	..	..	3/4½	2/1½ + 4½	25/3 +
RHINO-ANTIPEOL						
20 gr. Nozzled Tube	..	..	..	2/9½	1/9 + 3½	21/- +
ENTEROFAGOS (ORAL AND INJECTABLE)						
Box of 50 ampoules	..	..	..	19/-	13/3½	None
" 10 "	..	..	..	4/3	3/-	None
" 5 "	..	..	..	2/6	1/9	None
DETENSYL						
Tin of 500 tablets	..	..	..	39/-	24/- + 4/-	288/- +
Tube of 50 "	..	..	..	4/5½	2/8½ + 5½	32/4 +
ST. JAMES' BALM						
Tin of approx. 2½ oz.	..	..	..	2/10	1/11 + 4	22/6 +
" 1 oz.	..	..	..	1/5	1/1 + 2	11/3 +
Tube ..	..	..	..	1/2	9 + 2	9/- +

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, monthly account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.1

MEDICAL

EVANS SUPPLIES**ORAL TREATMENT OF ANÆMIA**

with

HEPAMINO

(Proteolysed Liver)

Clinical trials have demonstrated the value of Hepamino in the oral treatment of pernicious and other megalocytic anæmias even when these have proved refractory to the established forms of liver therapy.

Developed and introduced by The Evans Biological Institute, Hepamino contains the enzyme digested constituents of whole fresh ox liver in a dried, soluble and readily assimilable form.

Issued in 5 oz. (approx.) bottles at

Retail	15/-	Wholesale	11/3
-------------	------	----------------	------

EVANS SONS LESCHER & WEBB LTD.

FINE CHEMICALS  BIOLOGICALS  PHARMACEUTICALS

ROCHE NEWS IN BRIEF

Vitamin C Deficiency and Varicose Veins

The author considers that increased strain upon vessel walls is insufficient to cause varicosities unless there is an associated weakness of structure and suggests that vitamin C deficiency is an important cause of such weakness. In a group of 25 pregnant women with varicose veins he found 19 showing C hypovitaminosis, whereas in a further group of 30 pregnant women without varicosities, he found only 12 slightly below normal. Ascorbic acid 75 mg. t.i.d. appeared to control existing varicosities and prevent the formation of fresh ones. (West. J. Surg., Obst., Gyn., 1942, 50, p. 508.)

Rheumatoid Arthritis and Associated Conditions

Some of the symptoms of rheumatoid arthritis resemble those of anterior poliomyelitis. In view of the beneficial results obtained with 'Prostigmin' in the latter disease, the drug was tried in rheumatic conditions in the hope that it would relieve muscle spasm and prevent deformities. 'Prostigmin' was given both by injection (1-2 ampoules three or four times weekly) and orally (1-2 tablets t.i.d.) in 19 cases of rheumatoid arthritis and related conditions. Thirteen patients responded favourably. The effect of an injection is rapid and may persist for several days. 'Prostigmin' was found to be "a far more efficacious remedy for relieving such spasm than any other medication which has been previously employed." (J. Amer. Med. Ass., 1944, 124, p. 1237.)

New Strength of 'Beflavit' Ampoules

A new strength of 'Beflavit' vitamin B₂ ampoules has recently been placed on the

market in the United Kingdom. Each 2 ampoules contains 10 mg. riboflavin lactoflavin, and this new strength replaces the former B₂ ampoules of both 1 mg. 5 mg. The price for a box of 6 ampoules is 10s. 6d. less professional discount. Purchase Tax is 1s. 2d.

A Very Severe Case of Shingles

We have received the following report from a dentist: "Early last August I was taken ill with what the doctor described as the most ghastly attack of shingles he had ever seen. My right arm became paralysed and I lost all grip of my right hand.

"This state of affairs continued until January this year. I was then advised to try a course of your 'Benerva' Compound. By the time I had finished the first 100 tablets to my amazement the pain had gone and I was able to recover use of the arm. At the end of the second 100 I was perfectly free and had recovered weight."

In Nervous Apprehension

Where a simple sedative to encourage sleep is indicated

'SEDOBROL'

**Sedative
Bouillon**

is effective. Each tablet contains gr. 17 sodium bromide. Packings of 10 and 30 Tablets.



6 precious VITAMINS in ONE capsule!



VYKMIN Multiple-Vitamin Capsules are based upon an advanced formula and can be recommended with every confidence in cases of systemic vitamin deficiency.

Home Health Services,
132, Baker Street, London, W.1.

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The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.

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MERSALYL B.D.H.

Mersalyl B.D.H. is a diuretic of high activity and low toxicity; it is indicated in the treatment of oedematous conditions, particularly those complicating cardiac disorders. Modes of issue: in ampoules of 1 c.c. and 2 c.c. of a 10 per cent. solution for intravenous intramuscular injection (Injection of Mersalyl B.P.) and in the form of tablets and suppositories. Mersalyl B.D.H. is being advertised to the medical profession, and pharmacists will be well advised to keep an adequate stock in readiness for all demands.

PRICES

For parenteral administration

Box of 6 x 1 c.c. amps.	Who. per doz. 28/-	Tax per doz. 4/8	Retail inc. tax 3/11
,, 12 x 1 "	,, 52/-	,, 8/8	,, 7/3
,, 6 x 2 "	,, 44/-	,, 7/4	,, 6/1
,, 12 x 2 "	,, 84/-	,, 14/-	,, 11/8

For rectal administration

Suppositories containing 0.4 grm. Box of 6 Wholesale per doz. 58/- Tax per doz. 9/8 Retail inc. tax 8/1

For oral administration

Tablets containing 0.08 grm. Bottle of 20 Wholesale per doz. 30/- Tax per doz. 5/- Retail inc. tax 4/2

THE BRITISH DRUG HOUSES LTD. LONDON N.1

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IMPORTANT ANNOUNCEMENT

Ample stocks of Serocalcin are available now, and Chemists are urged to stock up before the position changes.

Our National Press Advertising Campaign, planned for the early Autumn, will mean a greatly increased demand for Serocalcin.

SEROCALCIN PREVENTS COLDS

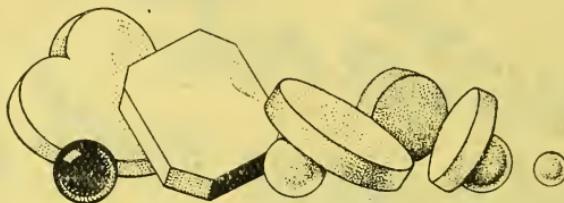
HARWOOD LABORATORIES, LTD., WATFORD, HERTS. Watford 4457

In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

VENO DRUG CO. LTD.
CHESTER ROAD · MANCHESTER, 16



PERFECTION AND
DEPENDABILITY IN

PILLS & TABLETS

call for

SCIENTIFIC CONTROL

HIGHLY TECHNICAL STAFF

MODERN EQUIPMENT

LONG EXPERIENCE

Consult

THE SPECIALISTS★



ARTHUR H.

COX & CO. LTD.

ESTD
1839

MANUFACTURING CHEMISTS.

BRIGHTON.

AUTUMN IS NEARLY HERE

Make a prominent display of these
QUALITY PRODUCTS



For the speedy relief of **RHEUMATIC PAINS, ACHING JOINTS and LIMBS, BACKACHE, LUMBAGO, DISTURBED NIGHTS, etc.**

Cystex
THE KIDNEY TONIC

Retails at 3/4½ and 6/9



Affords speedy relief from the choking, wheezing, gasping spasms prevalent during **ASTHMA and BRONCHITIS** attacks.

Mendaco

Retails at 2/3 and 5/7½

KNOX LABORATORIES LTD., 81 Lamb's Conduit St., London, W.I

The Story of Neodex Seltzer

Although it arrived on the market when imported products were unobtainable, Neodex Seltzer is not an untried, hastily contrived war-time substitute.

Our experiments to solve the problem of combining acid (aspirin) and alkali (soda bic) in a stable form first commenced in 1936, and Neodex Seltzer as now offered to the chemist is the direct result of our researches since that date.

A study of its formula will prove how confidently it can be recommended for Headaches, Digestive Troubles, and many types of Rheumatic or Neuralgic Pains.

Lithii Benzoas	..	..	..	..	3
Acidum Acetylsalicylicum	..	..	..	..	10
Acidum Citricum	..	..	..	..	34
Sodii Bicarbonas	..	..	..	to	100

So confident are we of Neodex Seltzer that if any customer should ever express dissatisfaction, we would ask the chemist to refund the full purchase price without question. Upon receipt of a card we will immediately reimburse the chemist plus postage.

International Laboratories, Ltd. - - - - - Charlbury, Oxford

NEODEX SELTZER

P.A.T.A.

A Permanent Line and Steadily Advertised



Mr. Retail Chemist . .

do you realise what the P.A.T.A. has done for your profit margin ?

★ Before the formation of The Proprietary Articles Trade Association in 1896, Retail Chemists had to contend with competitors who openly cut prices to ribbons and *advertised those cut prices*.

★ In 1896, there were 12 proprietary articles only on the First 'Protected Price List' of the P.A.T.A. Today nearly 400 proprietary manufacturers belong to the P.A.T.A. and 3,000 proprietary articles are on the list.

★ These manufacturers enforce minimum retail prices and *prohibit allowance of dividend, rebate, or bonus*.

It's up to you. For your own advantage, for an assurance of fair trading, you should back up this 48 years of effort. Support those manufacturers who belong to the P.A.T.A. and are thus guaranteeing you fair profits.

IMPORTANT. The P.A.T.A. Protected List is approved by the Central Price Regulation Committee as a list of 'permitted prices' under the Goods and Services (Price Control) Act.

Issued by THE PROPRIETARY ARTICLES TRADE ASSOCIATION

Always Sells!

THE LIVE LINE
WITHOUT A
DEAD SEASON-

Cuticura OINTMENT

223

● Cuticura Ointment—and equally popular Cuticura Soap, Cuticura Taicum Powder and Cuticura Shaving Stick—are in demand from January to December. How are your stocks.

DELLIPSOIDS

P.A.T.A. Elliptical shaped. Special Coating. DELLIPSOIDS are specially indicated in cases where the ordinary tablet is not easily swallowed



D.2. TONIC

Calc. Gluconate	..	..	..	gr.3
Ferrous Sulph. exsicc.	..	..	..	gr. 2
Concentrated Yeast (Standardised)	..	..	..	gr.2
Vitamin D	..	..	..	I.U.250
Strychnine hyd.	..	..	..	gr. 1-280
Manganese and Copper	..	..	..	traces

Bottles of 30.—Wholesale: 14/- doz. Retail: per bottle, 1/17½ incl. 2½d. P.T.

Other DELLIPSOIDS still available at present include: D.I. IRON AND YEAST. D.3. IRON. D.7. COLD. D.9. APERITIF. D.15. BRONCHIAL. D.17. ASTHMA. D.20. STOMACHIC. D.21A. TRI-VITAMIN.

All DELLIPSOIDS are subject to 33½% discount off the retail price plus quantity discounts: 2½% on 1 doz. and 5% on 3 doz. bottles.

Further announcements concerning the range of DELLIPSOIDS will appear at frequent intervals.

DAMANCY & CO. LTD.

Tel.: BYRon 1440 HIGH STREET ESTD. 1890
HARROW-ON-THE-HILL, MDX.

S.O.S.

for EMPTY CASES

Our customers are likely to suffer by a definite hold-up of supplies, unless we receive empty Andrews cases back. Please co-operate by sending without delay. Carriage or Postage will be credited.

HOW TO SEND

Fold cases flat, flaps inside tie-up. Ready addressed gummed labels obtainable from our travellers or direct from us.

Up to 15 lbs., by post (state cost on label)

Over 15 lbs., by rail c/fwd. (or state cost on label)

ANDREWS

SCOTT & TURNER LTD.,

(7) Andrews House, Newcastle-on-Tyne, 2

CURICONES

SPECIAL ANNOUNCEMENT regarding GELATINE CAPSULE

War demands are holding up supplies of the Gelatine Capsule containers and for the time being we are obliged to market Curicones in TABLET form. This does not affect their efficacy in any way whatsoever.

We hold a limited quantity of Curicones in Gelatine Capsules and these are being rationed in FIVE SHILLING Bottles. The 24/- size is temporarily withdrawn until Tablet supplies are ready. In the meantime, you should still recommend

CURICONES

FOR ALL RHEUMATIC AILMENTS

ORDER THROUGH YOUR
USUAL WHOLESALER

STEPHEN MATTHEWS & CO., LTD.
19-21 FARRINGTON STREET, LONDON, E.C.4

Demand's so fruitful . . . for TANGERINE

and the other 15 DINKY DYES (now including khaki) plus black, that you should certainly be selling them.

3d.

Per Carton

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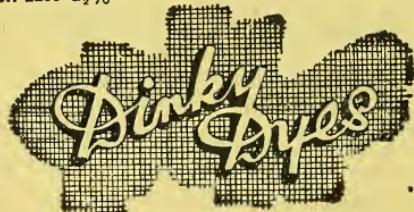
27/- gross

5 gross
less 10%

ORDERS WITH
CASH LESS 2½%

Advertisements are working for you in leading newspapers and women's journals. These fine Dyes are well presented, show them and you will readily sell.

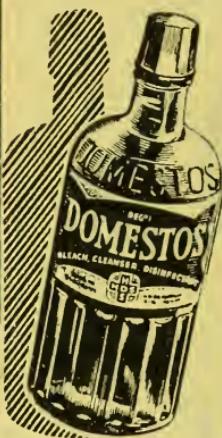
Send 2½d. for Sample Carton and Shade Card.



S. TATLOW & CO., LTD., Cokington, SHEFFIELD

A Fine Repeating Line . . .

After the first sale people keep on asking for "Domestos, the all-round household help for washing, cleaning and disinfecting . . .



DOMESTOS

The Three-purpose Cleanser.

DOMESTOS LTD.,
College Works,
Newcastle upon Tyne, 6.
Telephone . . . Newcastle 55119.

Write
for
Trade
Terms

Do you know THE LITTLE CHAP?

A remarkable Scientific Formula
produces this amazing NEW Cleaner



Today's Best Cleaner is
Today's Best Seller



Medium and large
sizes retailing at

1/- and 1/6

Terms on
application

"LITTLE CHAP" needs little introduction to your customers. They know this amazing new product as the stain remover that knocks spots off every other cleaner. Point out how it banishes stains and smears of grease, oil, paint, tar, without a trace, without discoloration or harm to delicate fabrics. Mention that it's non-inflammable, and non-evaporating—and so more economical. Then see how "LITTLE CHAP" ensures goodwill as well as good profits!





Pomeroy serves Beauty

Today, as fifty years ago, the beautiful woman knows that 'Pomeroy' is the hall-mark of good taste. Pomeroy Beauty Products serve Beauty faithfully today, as they have done throughout these years. Supplies are very limited, but they are equitably distributed. We take this opportunity of thanking our friends in the Trade for their co-operation during these difficult days, and look forward to an early resumption of full supplies.

JEANNETTE POMEROY BEAUTY PRODUCTS

174, NEW BOND STREET, LONDON, W.1.

★ TRADE ENQUIRIES: F. W. HAMPSHIRE & CO. LTD.,
Manufacturing Chemists, Sunnydale, Derby.

SKIN FOOD • BEAUTY MILK • CLEANSING CREAM • DAY CREAM • LIPSTICK
POWDER • DATHOS • SAFADA HAND LOTION • LIQUID POWDER

SALES

on the

UP and UP



2/3
6/8
ON THE
P.A.T.A.

PLESOX

NATURE'S PARTNER

EMMET Distribu
140 PARK LANE LONDON Co.,
(Tel.: MAYfair 6756/7/8).
Sole Distributors for Granta Laborato

A CHEMIST SAYS . . .

There is no
remedy to
equal it!



and am delighted to recommend
Dr. Singha Tablets to my Asthma-
suffering customers.

PRICES:

1/6, 5/-, 12/-, 20/-
(exclusive of purchase tax)

THE DR. SINGHA CO., LTD.
CAERNARVON, NORTH WALES

DR SINGHA

ASTHMA TABLETS

FAGRANT TONIC HAIR CREAM

MAKES THE HAIR BEHAVE

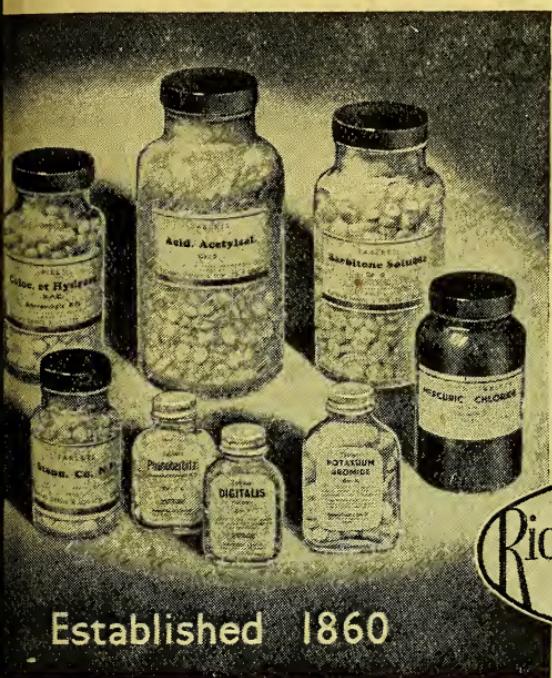
MY LADY'S VANISHING CREAM
For loveliness and charm—Delicately perfumed
Setting Lotion, Solid Brilliantine, Brilliantine, Cold Cream, Cleansing Cream, Antiseptic B
LABELS FOR THESE LINES—6/- per gross.
PERFUME—COLOURING—BOTTLES—
EMULSIFIERS—Needing hot water only to
excellent preparations as above. Send stamp
details to—

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He uses Sharpe
and gets a clear
week after wee
one blaoe. Wide
advertising is stim-
ing sales. Sharpe
tails at 4/6 (in)



Order from
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Established 1860

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TABLETS
 AND
PILLS
 For the
 Pharmaceutical
 Trade

Richard Daniel & Son
 LTD
 Derby.

Phone: Derby 4266-7-8. Grams: Danis Derby



Just another of the good things that will come again with Victory, but which must be sacrificed meantime.

ide by

CQUESIL FABRICS LTD.
 RED BANK MILLS
 RADCLIFFE, Lancs

**SMARTLY EMBOSSED: PERFUMERY
 LABELS.**

Small or Large quantities. Interesting Range. Samples 3d.; 2/6, 5/- and 6/-; 250 Reducing in Quantity.

FANCY BOTTLES (Lotions, Hair and Vanishing Cream or Perfume and Jars - - types, etc.)

FANCY BOXES (For Talcum and Face Powder, Perfume and Gifts)

ROUND TINS

Slip-on Lids. 2-dram and Upwards. Push-up and Fancy Lipstick Tubes and Cellulose Tubes. Latter, 15/- 100. Perfume. For Creams, Lotions, etc. Special Water Sol., 1/6 oz., Spirit and Oil Sol., 2/6, 4/6 and 5/9 oz., plus P.T. Emulsifying Waxes. White Hair Cream with water only and with oil.

Gum Trag. and **Gum Karaya.** Various qualities. Obtain your supplies now. 8/- to 33/- lb.

Materials. Rouge, Face Powder, Hair Cream, etc., Perfumery and Cosmetics with Formulas. Crystals for Bath Salts, Oils, Stearic Acid. Setting Lotion, 16/6 portion, perfumed and coloured. Spirit Setting Lotion Powder makes quantity.

MANUFACTURING MADE SIMPLE
 Miscellaneous: Liquid Shampoo, Powder Puffs, Towels, Sanitary Towels, Razor Straps, etc.

LENNARD LEE-NARVILL & CO., LTD.
 Lee-Narvill Laboratories, Anlaby Road, Hull
 Tel: 16128 (2 lines). Grams: "Lee-narvill, Hull."



MANUFACTURERS FOR 30 YEARS OF :— PASHANA
FOUGERE LOTIONS, TONFREY'S DRY SHAMPOO ETC

FOR
CHEMISTS' PRINTING
 CONSULT
JAMES TOWNSEND & SONS, LTD.
EXETER

LABELS

Neat Embossed Cork Top Seals

Send for Samples

WILLIAM SESSIONS, LTD.
 THE EBOR PRESS - YORK

GUM TRAGACANT

GUM KARAYA
 WHOLE AND POWDERED

M. HAMBURGER & SONS
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 The Hawthorns, Leatherhead Road
GT. BOOKHAM, SURREY
 Phone: Bookham 2746/8 'Homaclon, Bookham'



PLASTICS are a munition of war. The raw materials that went into the manufacture of the little things that meant so much to the comfort of peace-time living are now being shaped for war. But, the time will come—and final victory will herald the day—when all the resources of KLEEWARE will be diverted to serve the peoples of the world a world so dependent on Plastics for its reconstruction

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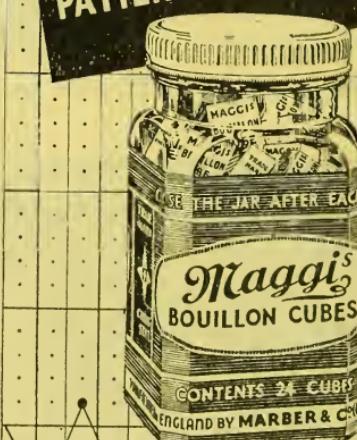
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NEWS OF THE WEEK

Trading with the Enemy.—The Board of Trade announces two new Orders: (1) "Trading with the Enemy (Specified Persons) (Amendment) (No. 9) Order, 1944 (S. R. & O., 1944, No. 810, price 4s.), which consolidates existing Specified Persons Orders except (2) The Trading with the Enemy (Specified Persons) (Amendment) (No. 10) Order, 1944 (S. R. & O., 1944, No. 809, price twopence), which came into force on August 9, 1944, and contains changes in the list of traders abroad with whom it is unlawful to have dealings of any kind. Copies of both Orders are available in H.M. Stationery Office.

"Out of Area" N.H.I. Prescriptions.—The Ministry of Health has agreed that the regulations shall be amended so that any chemist who is under contract with an Insurance Committee shall be able to accept and dispense N.H.I. prescriptions given in forms issued on behalf of Insurance Committees with which the chemist is not in direct contract. When this amendment comes into force, the prescriptions which

are dispensed on forms issued by the various Insurance Committees will be forwarded for pricing to the Insurance Committee for the area in which the chemist's business is situated, and payment will be made by that Committee. This arrangement is not yet in force, and cannot operate until the amending Regulations are issued. The amending Regulations which are now being drafted will include provisions on other N.H.I. matters connected with the medical service, and until those provisions have been approved by certain other interested bodies the issue of the Regulations is not possible.

B.M.A. Seeks Information.—A letter has been sent by the secretary of the British Medical Association to the secretaries of all voluntary hospitals and to the medical officers of health and clerks to the councils of major local authorities, inquiring whether medical staffs employed by these bodies are permitted to publish scientific papers without any restriction or the necessity to seek permission.

Shortage of Feeding-bottle Teats.—Two hundred mothers and twelve Scarborough chemists are reported to have signed a petition to the Ministry of Health regarding the shortage of feeding-bottle teats.

Use of Derris for Wasps Deprecated.—A recent letter to "The Times" from an official of the Ministry of Supply points out, in connexion with the use of derris powder for the destruction of wasps, that this substance should be reserved for the protection of vegetable crops with no diversion of material to less urgent needs.

Royal Interest in Penicillin.—The Queen, who is president of St. Mary's Hospital, Paddington, London, paid a surprise visit there on August 9—and left with a sample case of penicillin. In the penicillin ward Sir Alexander Fleming, its discoverer, explained to the Queen the effects of penicillin on wounds, and before her Majesty left he handed her the case containing the new drug.

U.N.R.R.A. Medical Supplies Section.—In connexion with the Health Programme for Europe it is stated by the United Nations Relief and Rehabilitation Administration (European Regional Office) that "a qualified and experienced chemist, recommended to us [U.N.R.R.A.] by the Pharmaceutical Society" is now on the staff of the Medical Supplies Section.

Liverpool Penicillin Production.—Penicillin and its production from green mould is being shown at a "Heal the Wounded" exhibition in Liverpool sponsored by the National Savings Committee. The anti-septic power of the drug is demonstrated by the killing of bacteria growing on culture plates, and other exhibits include *x*-ray apparatus, "M. and B.," blood transfusion apparatus, portable folding operating table, etc., as used in the field.

I.C.I. Research Fellowships.—The University of Manchester has accepted an offer made by Imperial Chemical Industries, Ltd., to provide eight research fellowships annually for a period of seven years. The fellowships will normally be of a value of £600 a year, and will be offered in chemistry or physics, or in branches of science related to chemistry or physics, such as physical chemistry, biochemistry, colloid science, chemotherapy, pharmacology, engineering, or metallurgy.

International Rubber Agreement.—The conference which took place recently (see *C. & D.*, August 5, p. 131) between representatives of the British, United States,

and Netherlands Governments, is understood to have reached a large measure agreement on the broad outlines of post-war situation in rubber, both natural and synthetic, and on the nature of problems that lie ahead. A first program of studies has been prepared, and arrangements for carrying out the studies are being made. Conversations are to be resumed shortly.

Nominations for Eire Council.—The last day for receiving nominations of candidates for the Council of the Pharmaceutical Society of Ireland is September 18, closing time being 12 noon. The seven members of the Council who will go out of office at the annual meeting on October 1 this year (all of whom may be re-elected) are Mr. F. J. Fitzpatrick, Dublin; Alderman J. F. Costello, Galway; Sir Thos. Robinson, Dublin; Mr. M. J. Kieran, Druimshambo, co. Liertrim; Miss F. M. Flanagan, Dublin; Mr. D. W. P. Boyd, Dublin; and Mr. A. R. Lester, Cork. Some time ago the Mayo Pharmaceutical Association intimated that it proposed to nominate Mr. N. A. McKane, Ph.C., Ballina, co. Mayo, as candidate.

New Rubber Order.—The Control of Rubber (No. 23) Order, 1944 (S. R. & 1944, No. 886), which came into force on August 9, relaxes the control of waste and reclaimed rubber, the principal relaxations being as follows: Restrictions on acquisition and disposal are abolished; restrictions on treatment, use and consumption are abolished, with the exception of those relating to the production of reclaimed rubber and to the use of waste or reclaimed rubber in the higher grades in the production of certain classes of articles set out in the No. 21 Order; restrictions on burning and destruction of waste rubber are abolished and waste ebonite, waste gutta percha, waste balata, rubber crumb and rubber shred are no longer controlled by the Ministry of Supply Order. The Order continues the control of prices for both waste and reclaimed rubber, and also the control charges for producing reclaimed rubber. Certain new classes of waste and reclaimed rubber are distinguished in the price schedules.

Dublin Conference on Veterinary Sales.—A joint conference of the officers of the Pharmaceutical Society of Ireland (Messrs. C. J. Cremen, president; J. K. Whelehan, vice-president; P. C. Cahill, treasurer; and Mr. James J. Kerr, registrar) and representatives of the Irish Drug Association

utive committee), including Messrs. J. G. Smith, president; G. C. O'Neill, president; G. A. McLean Lee, F. X. Gher, D. J. Bridgeman, and Brendan H., was held recently at the offices of the Pharmaceutical Society to consider upon a course of action to be taken in connexion with two suppliers who had led to withhold certain of their veterinary preparations from retail sale through pharmaceutical chemists, and to confine distribution to veterinary surgeons. The latter was considered at length, and it was decided to communicate with the concerns in question. A resolution of protest against a policy so inimical to the interests of pharmaceutical chemists was passed unanimously.

Glycerin for Anti-freeze.—Supplies of glycerin are now available for the production of anti-freeze materials and an Order accordingly been made by the Minister of Supply releasing any material containing less than 90 per cent. by weight of glycerin from the restrictions on production, distribution and acquisition of anti-freeze materials imposed by the Control of Engine, etc., anti-freeze (No. 1) Order, 1942. Formerly certain vehicle operators who had permits issued by the Ministry of War Transport were allowed to purchase supplies of ethylene glycol anti-freeze. As the manufacture of anti-freeze from glycerin is no longer prohibited this system will cease. Under the Order (the Control of Engine, Anti-freeze (No. 2) Order, 1944) (R. & O., 1944, No. 930) can be obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.2, or through any bookseller, price one penny.

Medical Students and N.H.S.—The British Medical Students' Association recently sent a questionnaire to 8,000 medical students on the Government's White Paper proposals for the introduction of a national medical service, and the results are now announced. Only 2,588 (30 per cent.) responses were received, of which 40 per cent. were against the proposals, whilst 51 per cent. stated that as a whole they were favourable to the proposals. The question: "Would you enter the National Health Service as it is described in the White Paper?" was not acceptable to the majority of students; 43 per cent. definitely answered "No" and 41 per cent. "Yes"; whilst 15 per cent. answered "Don't know"; 49 per cent. were of the opinion that the quality of the medical service would be improved by a National Health Service, and 36 per cent. considered it would suffer; 89 per

cent. were in favour of the principle of health centres; 72 per cent. were in favour and 25 per cent. were against the proposal of a complete medical service (including hospital and specialist service) to every one free of charge. On the question of payment of practitioners, 34 per cent. preferred a salary, 53 per cent. a small basic salary plus capitation fees, and 10 per cent. capitation fees only; 50 per cent. were in favour of abandoning the sale and purchase of general practices, but 37 per cent. preferred the present position.

Diet and the Condition of Teeth.—Several papers dealing with the effect of vitamins on dental health were read at a meeting of the Scottish Group of the Nutrition Society held at Dundee recently. Mr. J. D. King, Ph.D., said that his own results with vitamin C had been conflicting, though other workers had suggested that the vitamin played some part in maintaining gingival health. He had observed that nicotinic acid or nicotinamide was of value in the treatment of trench fever, the lesions of which could be treated by attacking separately any of the factors: local trauma of the gum, low general resistance, and temporary vitamin deficiency. Professor Campbell and Mr. R. P. Cook, Ph.D., suggested that if gingivitis were primarily due to trauma, the favourable results with ascorbic acid might be an instance of the influence of the vitamin on wound healing. Experiments showed that ascorbic acid caused rapid healing of the gum tissues and rapid absorption of the alveolar processes in tooth-extraction wounds. Professor G. F. Boddie described the dental effect of chronic fluorine poisoning, stating that if the concentration of fluorine in drinking water rose above four parts per million, the teeth showed mottling and pitting; flocks of sheep in the immediate neighbourhood of an aluminium factory had been found to have teeth so soft that they were irregular and often developed sharp points. With such teeth the animal was unable to chew its food properly. Jawbones of these animals had a fluorine content of 0.30 to 1.25 per cent., against an average in normal sheep of 0.24 per cent.

Venereal Diseases Booklet.—The Ministry of Health has issued a guide to medical practitioners on venereal diseases. The guide has been prepared by the Ministry's adviser on venereal diseases, and gives advice on treatment, on the taking of specimens for laboratory tests, and on the interpretation of laboratory reports.

LEGAL REPORTS

Table Jellies Without Licence.—At Eckington, near Sheffield, on July 31, Sydney Tatlow, M.P.S., was fined a total of £722, with £40 costs, on several counts of manufacturing and selling table jellies without a licence.

Acquitted.—In the Dublin Circuit Criminal Court, recently, Charles Brocklebank, manager of the Dublin Medical Stores, Fownes Street, Dublin, was found not guilty of administering a poison in an attempt to procure a miscarriage.

Eire Pharmacy Act Fine.—At Ballinrobe district court, Eire, recently, Cecil Newton, Ph.C., Main Street and Bridge Street, Ballinrobe, co. Mayo, was fined £2 for selling a poison without having his name on the container, for not personally managing his business, and for not employing a qualified person to sell poison.

D.D. Traffickers Sentenced.—At Bow police court, on August 8, Michael Akintaro, aged 28, a native of Nigeria, living in Rochester Road, N.W., described by the police as possibly the most notorious dangerous drug trafficker in the Soho district, was sentenced to six months' imprisonment for being in possession of a quantity of Indian hemp. Nellie Ellen Patricia Webb, aged 21, of Clarendon Road, Notting Hill, London, was sentenced to three months' imprisonment for supplying Akintaro with the drug, which she said she got from a coloured seaman. Akintaro said that Webb handed him a packet, but he did not know what it contained.

Eire Trade-mark Application Adjourned.—Before the Eire Controller of Patents in Dublin on July 25, Coty (England), Ltd., Stratford Place, London, W., applied for the registration as a trade-mark of the word "Airspun." Making the application, the patent agent for Messrs. Coty said that the goods were brilliantine, dentifrices, bath-salts, lipstick, face powder, face cream, non-medical toilet preparations, soaps, perfumes, and hair lotions. Messrs. Coty had used the word Airspun as a trade mark since 1933, and denied the suggestion that it directly or indirectly described the quality or characteristics of the goods in question. It was registered in Great Britain, did not exist before the applicants used it, and had never been used by other firms. Asked whether one of the processes for cleaning or thinning powder was not spinning, the agent replied that that was so, but that the process had never been

referred to as airspinning. The Controller: In the course of spinning the powder air is used. Do you suggest that airspun means nothing and has nothing to do with the process the goods are subjected to?—It was admitted that the word had some connexion with the process, but suggested that it merely indicated there was something superior in the spinning. It was realised the objection was serious, but evidence could be brought forward to support the application. The Controller said that he would adjourn the matter for three months pending the production of evidence, but gave a warning that it would have to be strong evidence, as he took a strong view against the word.

Illegal Sale of Fruit Compound.—At Coventry, recently, fines totalling £50, with £13 costs, were imposed on Fred Brierley, 39 Bedlam Lane, Foleshill, who was summoned on three counts of having sold quantities of a fruit compound not under a specified description, and for having unlawfully used saccharin tablets in the preparation of soft drinks. Brierley was described as a haulage contractor who dealt in soft drinks "as a side-line." The Board of Trade, who prosecuted, stated that defendant delivered to a café-owner at Stratford, Warwickshire, 400 gall. of fruit compound. It was noticed that the jars had been tampered with. The corks were pierced, and as it was possible that something had been extracted or an addition made, acceptance of the goods was refused, whereupon defendant offered to purchase them for £600. He paid £250 in cash and the balance a few days later. He then sold 30 gall. of the drink as "orange compound" at 37s. 6d. per gallon to a catering manager at the Coventry Hippodrome, Ltd. The controlled price of a similar authorised drink would have been in the region of 10s. per gall. Five one-gall. jars were sold to the Standard Cinema Stores at 34s. a jar. The compound was originally unsweetened, and defendant used considerable quantities of saccharin tablets to sweeten it. This was not only unlawful but undesirable in such a drink, the prosecution stated. Investigations at defendant's home resulted in the finding of 23,000 saccharin tablets. He refused to reveal the source from which he obtained them, but "there had obviously been very considerable trading—black-market trading." Defendant pleaded ignorance, and said he had never had any complaint from customers.

TOPICAL REFLECTIONS

Nuffield College Report

The statement issued from Nuffield College on scientific research in its relation to industry and summarised by you in a series of editorial articles, the last of which appeared on p. 171, will, I trust, be studied by many of your readers. It is safe to say that no comparable pronouncement on a subject of the first importance has appeared for a long time past. The field of observation has been judiciously delimited; the text is free from ostentatious learning; and we are spared the addition of a set of appendices—common enough in reports of this type, but often of doubtful utility. A remarkable feature is that ninety-two people of importance, while not committing themselves to "every particular," have supported, indeed have strongly supported, "the general tenor of its recommendations." We are not told the duration of the two conferences held for the purpose of preparing the statement, but we may be certain that it was no longer than the nature of the discussions warranted. My subject for a brief comment is taken from the second of your articles, in which you quote the view that industrial consultants "exist in any number only in a very limited range of trades, and . . . are by no means always equipped for giving really sound advice." The statement adds that this and other problems of research cannot be dealt with uniformly and without regard to the nature of the industries concerned. The quotation brings into focus the question whether, in a given case, team-work or the services of an expert are called for. Many years ago I was told that the wine committee of a certain club, in arranging purchases for its next period, proceeded by the usual method with one exception: if claret was wanted, the choice was delegated to a member whose decision no one would have contested.

What is a Specialist?

The announcement that a subcommittee of the General Medical Council has reported on the Council's intention to set up a statutory "register of specialists" (p. 157) carries a stage further a project that on the face of it is rather surprising. Hitherto it has been understood that the higher ranks of the medical profession were averse from any such label as "specialist," as they thought it would savour of advertising, a process strictly forbidden to registered practitioners. What is to be understood by

the term "specialist"? Let us recall the names of a few physicians of high reputation from the Restoration to the end of the eighteenth century—Browne, Willis, Sydenham, Cheyne, Sloane, Mead, Heberden, Buchan, Jenner. With the possible exception of Jenner, who survived into the nineteenth century, none of them, I believe, can fairly be said to have specialised in any department of medicine. The earliest date given for "specialist" in the Oxford English Dictionary is 1856. As an outcome of the extension of medical knowledge during the past century, it was natural that several experienced practitioners should devote themselves mainly or exclusively to particular diseases or groups of diseases. I do not, however, regard "specialists" as the best name that could have been chosen, for it seems to rule out the not inconsiderable number of consulting physicians from whom one would wish to select in a case of illness puzzling to a general practitioner yet not sufficiently clear to warrant the immediate attention of a specialist in any one disease. Surely it would have been better to describe the experienced practitioners as consultants.

A Small Sample

As you indicate (p. 174), too much importance must not be attached to the results obtained by questioning 277 people in Bristol on their use, abuse or neglect of medicines. A similar sample of population interrogated in another district might have yielded a different result, and war-time habits are not necessarily identical with those of the "piping time of peace." On a rough analysis the table printed shows that 25 per cent. of those volunteering information took no medicine. The details supplied are at some points less precise than might have been expected. Does the sixty-seven of "total salines" include the forty-nine of "saline A"? Again, the liver mixtures and possibly the bowel medicines tabulated must have had some laxative effect, though they are separated from the other types of laxatives. The medical comment that "the present demand is almost entirely the result of advertisement" is not in accord with the experience of those whose occupation it is to serve medicines over the counter. In any case, one factor is absent from such statistics. An experienced pharmacist, when a customer returned after taking a remedy and said that he (or she) was not feeling any better, used to reply, "What would you have been like without it?" **Xrayser**

TRADE NOTES

Household General Cleanser.—The three-purpose cleanser, Domestos, a general-purpose household product, for washing, cleaning, and disinfecting, is advertised in this issue.

Northern Polytechnic New Session.—Details of the new session courses for the pharmaceutical and first medical and other examinations, commencing September 25, are advertised in this issue.

Ample Supplies of Thiouracil.—Details of packings of this product are given in this issue. It is being manufactured by The British Drug Houses, Ltd.; Burroughs Wellcome & Co.; Genatosan, Ltd.; Imperial Chemical (Pharmaceuticals), Ltd.; May & Baker, Ltd.; Organon Laboratories, Ltd.; and Ward, Blenkinsop & Co., Ltd.

"Beflavit" Ampoules.—Roche Products, Ltd., Welwyn Garden City, have recently introduced a new strength of "Beflavit" vitamin B₂ ampoules. Each ampoule of 2 c.c. contains 10 mg. riboflavin (or lactoflavin), which is the equivalent of 4,000 to 5,000 Sherman units. Riboflavin is synthesized in the Roche laboratories in England. This new higher strength has been introduced to meet the present demand in vitamin therapy for larger doses.

Business Changes

ALF. HARRISON & SONS, LTD., Burley Road, Leeds, 4, state that their London office has been demolished and that it will be re-opened after the war.

LENNON, LTD., South African chemists, advise they now have their London office at 77-79 King William Street; and their warehouse at Buxton House, 10 Little Trinity Lane, London, E.C.4.

BUSINESS LICENCE APPLICATIONS.—Philip N. Thompson, to carry on business as a chemist and druggist, at 89 Liscard Road, Wallasey.

Proprietary Articles Trade Association

Additions to Protected List.—*Luft-Tangee (London), Ltd.* (distributors: Newbery & Phillips, Ltd., Victoria House, Vernon Place, London, W.C.1). Tangee lipstick, new size (complete in case), 1s. 9d., 14s. doz., tax 1s. doz., inclusive retail price, 2s. 11d.

Alterations.—*Pharmaceutical Specialities (May & Baker), Ltd.*, Dagenham. The bonus of 13 to the dozen on minimum orders of one dozen of the following preparations has been withdrawn: Zephrol cough syrup; Planacrine lozenges; Scuroform ointment.

INSURANCE ACT DISPENSING

London Annual Report.—The annual report of the Pharmaceutical Committee for the County of London for the year ended June 30, 1944, states, *inter alia*, that the sudden death of Mr. P. B. Phillips April 8, 1944, deprived the Committee of a valuable and highly esteemed member. Mr. Phillips was appointed a member of the Committee in 1922, and in 1937 he was elected chairman for the year. A circular and post card was issued to chemists in August 1943 on the question of closing hours and the formation of voluntary rota for service up to 7 p.m. After careful examination of the returns and investigation of the dispensing facilities available in the various districts throughout the county, the Committee are able to state that four weekly and twenty-four daily rota are operating. At various periods throughout the year typed notices showing the dates of rota duty are issued to each of the groups of chemists concerned. In the sixty-eight districts certain revisions have had to be made owing to changed circumstances. To maintain a reasonable service in other districts it may be found necessary to set up further rotas. The Committee have examined the monthly reports received from the Central Checking Bureau. During the year 1943 the standard of accuracy of pricing has been satisfactory despite shortage of staff. In order to ensure prompt payment in cases of ambiguity, chemists are again reminded to indicate on prescription what was actually supplied. Comparative figures for the years 1942 and 1943 are as follows:—

	1938	1942	1943
Number of prescriptions	8,882,243	5,705,382	6,348,111
Number of persons ..	1,886,650	1,378,900	1,362,111
<i>Averages:</i>			
Total cost per prescription	8·18d.	10·85d.	11·18d.
Cost of ingredients ..	3·88d.	5·68d.	5·94d.
Number of prescriptions per person ..	4·71	4·14	4·66

The Committee wish to express their thanks to London panel chemists for generous support given to the 1943 appeal for contributions under the "penny-in-the-pound" scheme.

COMPANY NEWS

I.F.S. (TIPTON), LTD. (P.C.).—Capital £1,000. Manufacturing, wholesale and retail mists, etc. John Fleming, M.P.S., and Henry T. Sowry, directors. R.O.: 6 Sealey Heath, Tipton, Staffs.

LOYD'S CHEMISTS (LONDON), LTD. (P.C.).—Capital £500. Manufacturers of and dealers in chemicals, drugs, etc. Albert H. man, M.P.S., and Harold L. Gage, directors. R.O.: 260 Upper Street, Islington, London, N.1.

BRITISH PEPTONES, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in teriological peptones and digestive preparations, etc. Eric St. G. Gilmore and Dr. C. Baird, directors. R.O.: 69 Monton Street, Moss Side, Manchester.

OSMETTICKE SHOPPES, LTD. (P.C.).—Capital £1,000. To acquire the business of dealer in toilet and fancy goods carried by Eric I. Peddle at Gloucester, Stroud, Cheltenham. Eric I. and Mrs. Edna D. dle, directors. R.O.: 9 George Street,oud.

RODUCTION CHEMICALS (ROCHDALE), LTD. (P.C.).—Capital £2,000. Manufacturers of and dealers in chemicals, drugs, proprietary articles, etc. Edmund S. d, Gladys M. Markman, and Chas. E. nett, directors. R.O.: Lloyds Bank members, Lord Street, Rochdale.

ANGENE PRODUCTS, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in medical, medicinal and pharmaceutical products, tonic wines, substitutes for toilet articles, etc. Desmond B. O'Callaghan and Eileen M. Kiernan, directors. R.O.: Fenchurch Street, London, E.C.3.

J. & M. HOLLOWAY (BIRMINGHAM), LTD. (P.C.).—Capital £1,500. To acquire the business of dispensing chemists and opticians carried on at 3 Hartley Road, Kingstanding, Birmingham. C. E. Holloway, J. A. J. M. Holloway, M.P.S., and Peter Bryan, directors.

GOULD & CO. (CHEMISTS), LTD. (P.C.).—Capital £2,000. To acquire the business of mists and druggists carried on by C. K. E. Cronan, at 23 North Wiley Street and 16 Knightsbridge Green. Edward J. Cronan and Mrs. Marion C. K. Cronan, directors. R.O.: 23 North Wiley Street, London, W.1.

J. M. LOVERIDGE, LTD. (P.C.).—Capital £100. To acquire the business of a mist and druggist carried on by John

M. Loveridge at 439 Millbrook Road, Southampton, and at the Corner House, Broad Street, Alresford, Hants. John M. Loveridge, M.P.S., William S. Holmes, and Nellie E. Veal, directors. R.O.: 439 Millbrook Road, Southampton.

BEECHAMS PILLS, LTD.—A first interim dividend for the current year of 7½ per cent., less tax, is announced. The distribution is at the same rate as that for the previous year.

SANGERS, LTD.—Directors report profit for the year ended April 30 amounts to £272,779, against £231,515 last year. To the former sum is added the balance brought forward from last year of £132,882, making a total of £405,661. Out of this sum the directors have allocated to taxation £121,149, have paid the dividend on the preference stock for the twelve months ended January 31, 1944, and an interim dividend on the ordinary stock of 5 per cent. In addition there has been transferred to the new reserve against future taxation the amount of £20,657, written off good-will, £1,338, and transferred to contingency reserve, £808. This leaves a balance of £227,364, which the directors recommend should be dealt with as follows: By transfer to staff benefit fund, £2,470, and to pay a final dividend of 20 per cent. (less tax) on the ordinary stock, making with the interim dividend referred to above a total of 25 per cent. for the year ended April 30, 1944, an increase of 2½ per cent. on the previous year. Carry forward, £164,620, against £132,882 last year.

ADJUSTMENT ORDER.—James Donald Holmes, Flat 2, 34 New Cavendish Street, London, W.1, chemist. Adjustment order under Liabilities (War-time Adjustment) Act, 1941, granted July 27.

BANKRUPTCY ANNULMENT.—C. L. Lever, chemist, 180 Lord Street, Southport, and formerly at 4 Plaza Buildings, Ainsdale, Lancaster. Date of annulment, July 27, 1944, on ground that debts have been paid in full.

BANKRUPTCY ACTS.—Receiving Order and Adjudication. Leslie Charles Davis, "The Nest," 117 Marshalswick Lane, St. Albans, and carrying on business under the style of "The Beech Road Drug Store," at 4 Beech Road, St. Albans, Hertford, wholesale and retail druggist.

PERSONALITIES

MR. ARCHIBALD ROBERTSON, chemist and druggist, 10 Windmill Road, Hamilton, has been appointed a Justice of the Peace for the county of Lanark.

MR. R. LESLIE COLLETT has been appointed registrar, and DR. H. J. T. ELLINGHAM, secretary, of the Royal Institute of Chemistry, both appointments to take effect from January 1 next.

MR. HAROLD LEONARD SAUNDERS, B.Sc., has been appointed Comptroller-General of Patents, Designs, and Trade Marks, in succession to Sir Frank Lindley, C.B., who is retiring from the public service.

MR. HAROLD DAVIES, M.P.S., Bridge Street, Rhayader, by his prompt action recently saved the life of a woman from the Wye. Mr. Davies has just taken over the business formerly carried on by Mr. D. E. Evans, M.P.S., Rhayader.

MR. JOHN W. UPTON, M.I.Ex., has been appointed commercial manager to J. F. Macfarlan & Co., Edinburgh.



Mr. Upton has been with Southall Bros. & Barclay (1935), Ltd., Birmingham, for nearly twenty-five years as export manager. Before joining Messrs. Southall, he was with Dakin Bros., Ltd., Middlesex Street, London; Barclay & Sons, Farrington Street, London; and E. H. Butler & Sons, Leicestershire. For some years he took an active interest in the Birmingham Chamber of Commerce, and has been on the committee of the Birmingham Branch of the Institute of Export since its inauguration in 1938. He was also treasurer of the Birmingham Advertising Club. On the occasion of his leaving to take up his new post, he was presented by Mr. A. T. Hall (managing director), on August 5, on behalf of his friends and colleagues, with a silver cigarette-case suitably inscribed, together with a wallet containing cash.

MARRIAGE

GOLDMAN—GARBUTT.—At Ryhope Road Synagogue, Sunderland, recently, Mr. Charles Goldman, M.P.S., to Cynthia Garbutt.

DEATHS

BRAY.—At 186 Baginton Road, Coventry, on August 6, Mr. Francis Joseph Bray, aged seventy-three. He was secretary of Wyleys, Ltd., a position he had held since 1932. He began his career with Wyleys in 1889 and continued as a representative till 1914. In earlier years Mr. Bray was a chorister at Coventry Cathedral. He was always interested in choral work, and some thirty years ago, when living at Kenilworth, became organist and choir-master at Ashow Church. He had been Worshipful Master of the Stoneleigh Lodge of Freemasons.

COWLE.—In his pharmacy at Middle Street, Yeovil, on July 27, Mr. Charles Cowle, M.P.S., Wayside, Park Road, aged sixty-nine. A native of Devon, Mr. Cowle took over the old-established business owned by Francis Bros., Yeovil, in 1911. He leaves a widow and one daughter.

HESLOP.—On July 25, Mr. Charles William Baker Heslop, 10 Abinger Avenue, Cheam, Surrey, aged sixty-five.

HILL.—At Windlesham Moor, Windlesham, Surrey, on August 15, Mr. Philip E. Hill, aged seventy-one. Mr. Hill, who was a native of South Wales, was the managing director of Philip Hill & Partners, the finance company, and chairman of Beechams Pills, Ltd., and a number of other subsidiary companies.



MACCALLUM.—At Westchester, New York, U.S.A., on June 30, Mr. Charles MacCallum, vice-president of the Liggett Drug Co. of the United States, and president of the Liggett Drug Co. of Canada. A native of Galt, Ontario, Mr. MacCallum was buried at Niagara Falls.

SWIFT.—On July 28, Mr. Ernest Radcliffe Swift, M.P.S., 241 Alder Street, Fartown, Huddersfield. Mr. Swift qualified in 1897. He was a director of Dodd & Co., Ltd., chemists, Huddersfield.

THOMAS.—Recently, at Swansea, Mr. Richard Thomas, Ph.C. Mr. Thomas qualified in 1885 and was a native of Machynlleth.

EMPIRE AND FOREIGN NEWS

Anti-locust Spray.—Methods used by the Inter-departmental Committee on Locust Control, which have been employed with some success against this pest in Arabia and East Africa, include spraying with dinitro-ortho-cresol from the air.

A Soviet "Kew Gardens."—Botanical gardens are being laid out near Tashkent by the Uzbek Scientific Research Institute of Forestry. Over thirty-four hectares have been planted with oak, sycamore, poplar, walnut, chestnut, lime, fruit-trees and roses, and there is a nursery of 140 types of trees and bushes. It is hoped eventually to grow 1,500 varieties of bushes and other specimens from the Caucasus, Afghanistan, Persia, Italy, America and other places with climates like Uzbekistan. Besides being a living museum, the park will be a nursery from which farms and towns can obtain specimens of new plants obtained by crossing and selection.

Japanese Narcotics in Occupied Territory.—The number of drug addicts in Japanese-occupied Manchuria and Jehol is estimated to have increased, as a result of the occupying power's policy of actively fostering production, by 13,000,000, or about one-third of the population. Red narcotic pills, in bags of 10,000 each, are sold under military pressure to the Chinese in the Japanese-controlled sections of southern Shansi and northern Honan. Attempts have also been made to smuggle the narcotics across the Yellow River into free China. The pills are stated to be made by a Japanese drug firm at Tasinchuang, Honan. Trade in opium is also openly promoted by the Japanese in Sinchien, Kiangsi Province, and Canton and Swatow, Kwangtung Province.

Prominent Drug House Manager Dies.—Prominent in the Canadian drug trade, Robert Melville Graham, aged sixty-four, manager of the Toronto branch, National Drug & Chemical Co. of Canada, Ltd., died suddenly on June 25, after a heart attack at his home in Toronto. Born in Hamilton, Ontario, he was first associated with the firm of Archdale, Willson & Co., wholesale druggists, Hamilton, which in 1900 became the Dominion Drug Co., Ltd., and in 1906 merged with the National Drug & Chemical Co. Serving in various capacities in these companies, Mr. Graham went to Toronto as office manager in 1909 and ten years later was appointed manager of the Toronto branch. He was a director of the Beatter Business Bureau. In 1924 he

was a member of the Canadian Lawn Bowling Team to tour England, Scotland and Ireland. Surviving are his widow, a daughter, and two sons.

United States Drug Industry Busy.—Despite shortages in materials which must be imported, the drug industry in the United States is currently operating at the highest level in its history, according to "The Index," quarterly publication of the New York Trust Co. The volume of business last year was estimated at \$800,000,000, an increase of more than 55 per cent. since the start of the war. An important factor which will affect the future of the industry, it is maintained, is the growing amount of self-medication, a development which is destined to expand still further because of the existing shortage of physicians. Increased uses for vitamins, the sulpha drugs and penicillin, it is pointed out, amounts to a "semi-revolution within recent years," and this development has been of substantial benefit to the industry. Every third customer in a drug store, it is stated, purchases a vitamin preparation of one sort or another, and products of this character are now selling at the rate of more than \$200,000,000 a year. Advertising expenditures for drugs, cosmetics and pharmaceuticals, always an important influence on the drug industry, have averaged approximately \$75,000,000 annually for the past six years. Drugs are still the main source of revenue, however, with sales over the prescription counter accounting for well over half of total receipts. The smaller stores—those with sales under \$20,000 annually—find prescriptions, drugs and medicines more important than the larger stores, which sell a substantial amount of general merchandise. The drug industry, it is stated, has practically no reconversion problem. Its post-war problems should be minimised by the fact that it did not have to convert facilities or expand production abnormally in order to meet the added burden of the armed services, Lend-Lease and other foreign requirements, in addition to the civilian demand. With certain exceptions, requirements for larger output have been met by operating on a two- and three-shift basis and by a certain amount of subcontracting. In view of the expected large relief demands of reoccupied foreign areas after the war, there is a sound basis for believing that operations should continue at a high rate at least for the first year after the war.

PENICILLIN REGULATED

THE following is the text of the Therapeutic Substances Amendment (No. 2) Regulations, 1944, dated August 2, 1944, made by the Joint Committee constituted under section 4 (1) of the Therapeutic Substances Act, 1925 (S. R. & O., 1944, No. 922), regulating penicillin.

The Joint Committee constituted under subsection (1) of section 4 of the Therapeutic Substances Act, 1925 (in these regulations called "the Act"), hereby certify under section 2 of the Rules Publication Act, 1893, that on account of urgency the following regulations should come into operation immediately, and in exercise of the powers conferred on them by sections 1 and 5 of the Act, after consultation with the Advisory Committee constituted under subsection (2) of section 4 of the Act, hereby make the following regulations to come into operation forthwith as provisional rules in their application to England and Wales and Northern Ireland, and to come into operation immediately as statutory rules in their application to Scotland:—

1. These regulations may be cited as the Therapeutic Substances Amendment (No. 2) Regulations, 1944, and shall be included in the regulations which may be cited together as the Therapeutic Substances Regulations, 1931 to 1944.

2. The Interpretation Act, 1889, applies to the interpretation of these regulations as it applies to the interpretation of an Act of Parliament.

3. Penicillin (crude filtrate), penicillin (dried crude filtrate) and penicillin salts, as defined in the schedule added to the Therapeutic Substances Regulations, 1931, by these regulations, shall be added to the schedule to the Act as being substances the purity or potency of which cannot be adequately tested by chemical means.

4. The following schedule shall be inserted in the Therapeutic Substances Regulations, 1931, after the Sixth Schedule thereto:—

SEVENTH SCHEDULE

Definitions and proper names.

1.—(1) Penicillin (crude filtrate) is the solution obtained by the filtration of cultures containing penicillin grown on or in a liquid medium, or of extracts from such cultures. Its proper name is "penicillin (crude filtrate)."

(2) Penicillin (dried crude filtrate) is the substance obtained by reducing penicillin

(crude filtrate) to a dry condition. Its proper name is "penicillin (dried crude filtrate)."

(3) A penicillin salt is the substance separated by the application of chemical and physical processes from the culture medium on or in which a mould producing penicillin has been grown, and reduced to a dry condition. Its proper name is "penicillin," followed by a word or words indicating the nature of the preparation, as, for example, "penicillin (sodium salt)."

(4) In this schedule "penicillin" means the anti-infective organic acid which is known to be produced by *Penicillium notatum*, and "preparation of penicillin" means penicillin (crude filtrate), penicillin (dried crude filtrate) or a penicillin salt or solution thereof.

Standard preparation.

2. The standard preparation is a quantity of a dry penicillin salt kept at the National Institute for Medical Research, Hampstead, London.

Unit of Standardisation.

3. The unit of penicillin for the purpose of these regulations is the activity contained in such an amount of the standard preparation as may be indicated from time to time by the Medical Research Council.

Tests for Potency.

4. Preparations of penicillin shall be tested for potency in units, which shall be determined, by comparative tests in relation to the standard preparation, by a method approved by the licensing authority. The potency so determined shall be expressed in units per c.c. in the case of liquid preparations and in units per milligramme in the case of solid preparations.

Quality.

5.—(1) Penicillin (crude filtrate) containing less than 10 units per c.c., and penicillin (dried crude filtrate) containing less than 0.75 units per milligramme, shall not be issued. (2) A preparation of penicillin intended for use in making solutions for parenteral injection shall contain not less than 150 units of penicillin per milligramme.

Tests for sterility.

6.—(1) The provisions of Articles 16 to 20 of these regulations relating to the application of tests for sterility shall apply

to preparations of penicillin with such modifications, if any, as the licensing authority may from time to time approve.

(2) The provisions of Part I (C) of the Second Schedule to these regulations shall apply to a preparation of penicillin which is alleged to contain *Penicillium notatum* or any other organism in living condition.

Tests for freedom from abnormal toxicity.

7. Preparations of penicillin intended for use by parenteral injection shall be subjected to the following test for absence of abnormal toxicity: A quantity of the preparation containing not less than 1,000 units of penicillin, in a volume not exceeding 0.5 c.c. of a watery solution, shall be injected intravenously into each of five normal mice each weighing approximately 20 grammes.

The sample shall be treated as having passed the test if either: (a) The injection does not cause death in any of the mice within twenty-four hours from the injection, or (b) the injection having caused death in one only of the mice within that period, further such injections in five other such mice do not cause the death of any of those mice within twenty-four hours from the injection.

Tests for freedom from pyrogenic substances.

8. Preparations of penicillin intended for use by parenteral injection shall be subjected to the following test for absence of pyrogenic substances: A quantity of the

preparation containing not less than 10,000 units of penicillin, in a pyrogen-free watery solution, shall be injected intravenously into each of three normal healthy rabbits each weighing not more than 2.5 kilograms. The body temperature of the rabbits shall be recorded one and one-half hours before the injection, and either continuously for three hours after the injection or at the end of one, two and three hours after the injection. The sample shall be treated as having passed the test if the average maximum temperature increase of the three rabbits does not exceed 1.2° C.

Container.

9. The container for liquid preparations of penicillin shall be made of glass as respects which the licensee has satisfied himself that it does not lead to the destruction of penicillin.

Labelling.

10.—(1) The label on the container shall indicate whether the preparation is suitable for parenteral injection. (2) In the case of preparations of penicillin intended only for local application, the label on the container and the label or wrapper on the package shall bear the words "not to be injected" clearly printed in a distinctive colour. (3) If a preparation of penicillin as issued for sale is combined with any substance other than a simple diluent, the exact nature and strength of that substance shall be stated on the label on the container.

NEW BOOKS

A Manual of First Aid and Bandaging.—J. Ross Mansell, B.Sc., M.P.S. (Director of Training, Pharmaceutical Corps). Pp. 174, 12s. 6d. Hatton Press, Ltd., London, E.C.4. Illustrated by photographs and diagrams, the volume is based on the author's lectures given over a number of years to first-aid personnel. It goes well beyond the elements of the subject given in the average book on first aid.

Casualty Work for Advanced First-aid Students.—A. W. Macquarrie, M.B., Ch.B. (Edin.). 4½ in. by 3½ in., pp. 230, 4s. 6d. E. & S. Livingstone, Ltd., Edinburgh. Among the most recent of books published during the war on first aid, the book covers a much advanced stage of the work. The first chapters deals with the technique of examination and diagnosis of casualties; the second, types of wound (internal injury, dislocation, burns, etc.). Signs of shock and hysteria, and their treatment, are well

covered in another chapter. Hæmorrhage, asphyxia, and the unconscious patient form the subjects of other chapters. Under the heading "Transport," the various types and methods of transporting casualties are described.

Salts and Their Reactions.—Leonard Dobbin, Ph.D., and John E. Mackenzie, O.B.E., D.Sc. Pp. 247, 8s. 6d. E. & S. Livingstone, Ltd., Edinburgh. Instruction is provided in the properties of metals, oxides, acidic and metallic radicals, and the laws of chemical combination by simple gravimetric and volumetric experiments. There are sections on the nature and properties of salts, salt formation and decomposition, reactions of metallic and acidic radicals, dry-way reactions and volumetric analysis, with an appendix giving experiments with some common organic substances, such as starch, sugars, flour, alcohol, glycerin, wool, silk, hairs, and feathers.

SOME TROPICAL DISEASES AND THEIR TREATMENT

by C. B. Holliday, M.P.S.

Diseases due to Protozoa

INTEREST in tropical diseases has been intensified with the spread of the war to the Far East. Not only is information sought from the pharmacist about the diseases fighting men may contract, but he must also be alive to the possible post-war repercussions when men return to this country after having contracted some disease at present, perhaps, only endemic in tropical and subtropical countries.

The spread of these diseases, of course, may not always follow owing to the absence of some link in the life history of the causative organism, but there is always a possibility in some cases that new hosts may be acquired. The opportunity for certain diseases to become endemic in parts where so far they are unknown is intensified as air travel, with the attendant transference of insect and other vectors of these diseases, becomes more general. The pharmacist should, therefore, be aware of the methods used to control and treat tropical and subtropical diseases; of the contributory factors in their spread; and of the remarkable advances made in recent years in our knowledge of the whole problem.

Malaria Parasite and Insect Hosts

The spread of malaria is dependent upon the presence of certain species of Plasmodium in human blood, and of suitable insect vectors of the species *Anopheles* in which part of the protozoan life cycle takes place. There are four of the former, *Plasmodium vivax* and *P. ovale* producing benign tertian malaria; *P. falciparum* causing the subtertian or malignant fever; and *P. malariæ*, quartan fever.

Not all the many species of *Anopheles* act as hosts, and this group includes three out of the four indigenous ones, greatly reducing the possibility of malaria epidemics in this country. *Anopheles maculipennis* var. *atroparvus* is a vector, however, and it only requires the presence of persons with Plasmodium circulating in their blood to be resident in areas where this mosquito breeds (in certain brackish coastal waters and occasionally inland) to form a nucleus for a serious epidemic. *Anophelines* do not breed in static water tanks; their larvæ are adapted to running water.

When malaria has occurred in Great Britain, it has usually been of the benign

tertian type, and a vigorous post-war policy in 1918 has resulted in administrative and scientific machinery which is well adapted to deal with any problems arising out of the present conflict.

Life-cycle of the Malaria Parasite

Briefly, the male and female gametes sucked up from human blood by the mouth organs of the mosquito, fuse in the insect stomach to form zygotes which, becoming mobile, are known as oökinetes. These become encysted in the stomach walls and divide to form sporozoites which are thrown into circulation by the bursting of the cysts. These are now ready for the next stage in their development, which takes place in man, being injected into the blood through the mosquitoes' salivary glands.

There is some obscurity regarding the period between the entry of the sporozoites into the blood and their appearance as growing parasites—the trophozoites—in the red blood cells. There is often a late period of as much as two weeks, possibly due to an extra development in the epithelial cells, of a new form, known as an erythrocytic parasite, as happens in certain bird malarias. This has not been confirmed in man, but if found would no doubt account for the limitations of the known anti-malarial drugs.

The adult trophozoites, developing in the cell, eventually divide into many merozoites, the number varying with the species of Plasmodium, and these eventually pass into the blood where they infect the corpuscles. This process in man is known as schizogony (the stage in the mosquito called sporogony), and the length of time it takes, that is from the start of the trophozoite development to the appearance of merozoites in the blood, gives rise to the clinical manifestations of the type of malaria concerned. In quartan fevers, the cycle of seventy-two hours, the temperature rising on the fourth day; in tertian malaria it takes forty-eight hours, the temperature rising on the third day, although in subtertian malignant malaria the fever may be somewhat irregular. To complete the history, some of the merozoites, instead of completing schizogony, become differentiated into male and female gametes, gametocytes, and are sucked up by the mosquito from the peripheral blood.

Quinine, by mouth or intramuscular in

n, is the classical drug in malaria. It acts only upon the schizonts of the benign tertian and quartan fevers, and it has some action upon the schizonts of malignant fevers. Its action on the gametocytes is slight in benign tertian and quartan malaria, and is negligible in sub-tertian or malignant fevers. Quinine sulphate, B.P., is preferred. The drug is best given in mixtures, the soluble salts being reduced to the base in the case on reaching the duodenum. Soluble salts may be given if tablets are required, quinine sulphate tablets often passing through the intestines unchanged. Totalina, B.P., is a mixture of cinchona alkaloids recommended by the League of Nations Malaria Commission. The loss of Java privided the Allies of 90 per cent. of pre-war quinine supplies, and it has been necessary to fall back upon synthetic substitutes such as mepacrine hydrochloride and pamaquin. The recent synthesis of quinine itself is likely only to be of academic interest at present.

tion of Mepacrine

Mepacrine hydrochloride has an action similar to that of quinine, but with a more marked effect upon the schizonts of the sub-tertian malignant types. It is excreted at a slower rate than quinine, and its action is more prolonged. It may be given in tablet form and when taken sometimes causes a non-toxic yellow skin pigmentation. It is not contraindicated in pregnancy as is quinine, having no action upon the uterus. Both quinine and mepacrine may be given in their suppressive action in preventing the development of the infection, or for their curative action in cutting short an attack.

In most cases of malaria, there are relapses when treatment ceases, immunity being in only after many attacks. This relapse rate is high in benign tertian and quartan malarias, and while quinine and mepacrine have some effect in reducing this, it is not marked, particularly in the former case. Pamaquin, however, has an important effect in reducing relapse rate, particularly of benign tertian malaria. This drug is complementary to the other two, acting upon the gametocytes; it is a poor antizoonicide. Unfortunately it is somewhat toxic and the dose is a small one. It is given at the end of fever in order to destroy the gametocytes circulating in the blood. The quinonamides have little action in malarias, only affecting malignant fevers, whilst quinine in conjunction with acetarsol has some effect upon benign tertian malaria,

other types not responding to the treatment. The antimalarial drugs inhibit the respiratory mechanism of *Plasmodium*, the species being characterised by a high rate of oxygen consumption.

Blackwater Fever

This fever is always associated with malaria and is found wherever it is strongly endemic. Knowledge of its cause is by no means complete, and whilst it is believed by some to be due to an unknown parasite, it is generally thought to be caused by a haemolytic toxin arising from malaria saturation. Associated factors are certainly frequent, such as attacks of sub-tertian malaria and residence for some time in malaria infested areas, even if the attack has been suppressed by prophylactic measures. The condition is often precipitated by anti-malarial drugs, particularly quinine, but it is not related directly to their use. Haemoglobinæmia and haemoglobinuria result from the fever as acute haemolysis sets in, and treatment consists essentially in much prolonged rest together with copious fluids to dilute the urine. Quinine should not be given as it often causes the fever; mepacrine is safer.

(To be continued)

PHOSPHATE ROCK SOURCES

THE United States War Production Board reported recently that the programme for world utilisation of phosphate rock, most of which is required for agricultural purposes, calls for the production of 10,000,000 tons in the agricultural year July 1, 1944, to June 30, 1945, while goals for the following year will be raised to 12,767,000 tons. Pre-war consumption of phosphate rock was approximately 10,700,000 tons. Increased requirements in 1945-46 are chiefly for the rehabilitation of liberated European countries. Phosphate rock mines in North Africa will be expected to furnish a substantial portion of the raw material to be converted into superphosphate fertilisers to meet European requirements. Reporting on the condition of mines in Morocco, Tunisia and Algeria, a representative of the North African Economic Board stated that the chief bottlenecks to maximum production of phosphate rock are shortages of labour, equipment and rail transport. Many ports have been severely damaged, loading and unloading facilities torn up, and channels filled with obstacles. Current annual export from North Africa is approximately 2,500,000 tons,

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CXLII AUGUST 19, 1944 NO. 3367

fact that goods made of raw materials short supply owing to war conditions are rtised in this paper or described in its rial columns should not be taken as an cation that they are necessarily available xport.

Government Surplus Stores

ns for disposal of Government surplus es are outlined in a recently-issued te Paper (Cmd. 6539, Stationery Office, one penny net). The Paper deals with e classes of Government-owned stores: raw materials; (b) munitions; and (c) ufactured stores suitable for, or adapt- to, civilian uses. With regard to raw erials, it is pointed out that many of e are bought and sold by Government cies. Surpluses of raw materials will be ed to the appropriate department, and be allocated or disposed of in accord- with its instructions. In many cases e will be no need for new marketing inery, as the surplus will become part control's stock. It is emphasised that e and other interests concerned will be ulted in connexion with plans for dis- l of raw materials. Little interest is ched to the second class of goods, which have no direct civilian use.

Manufactured Civilian Stores

he greatest interest from the retail t of view lies in the third class of goods, hich there is a great variety. Some are able for sale through retail shops to the

general public, but others are of use only in industry. The problem of how such stores, which the Government have purchased for war purposes and do not ordinarily sell, can best be disposed of forms the main subject of the rest of the Paper. The general principles which the Government intends to adopt in disposing of surplus goods are as follows:—

(a) To release the stocks at a rate which, while fast enough to get the goods into the hands of consumers when they are most required, and to clear badly-needed storage and production space, aims at avoiding adverse effects on production through flooding the market;

(b) Unless there is good reason to the contrary, to distribute the goods through those traders or manufacturers who would normally handle or use them, and to secure that ultimate consumers in all parts of the country have a fair opportunity to buy them;

(c) To ensure, if necessary by statutory price control, that the prices charged to the ultimate consumer are fair and reasonable in relation to the current prices of similar articles, to prevent profiteering on the part of dealers handling the goods, and to keep down the number of intermediaries to the minimum compatible with a proper distribution.

It may be decided that some of the surplus goods should be exported rather than retained for the home market. In such cases, also, arrangements will be made, where appropriate, for the sale of the goods concerned through traders or manufacturers who are normally engaged in this type of business.

The Administrative Machinery

For each category of surplus goods, one department has been designated as the disposal department. As such, it will arrange for the sorting, assembling, cataloguing, and reconditioning of all goods in that class, and will deal with the contracts of sale. Methods of disposal, price margin, price, etc., will also be decided by one department for each category of surplus goods. For many articles, including almost all consumer goods, the Board of Trade will usually

carry out this function. Traders or manufacturers who wish to know which department they should approach regarding the disposal of particular surplus stores should get in touch with the Board of Trade, which will also deal with any general inquiries. The White Paper makes it clear that the arrangements set out are without prejudice to the settlement of any questions that may arise in the disposal of stores received under Lease-Lend or mutual aid.

Not on the United States Model

THE appearance of increasing numbers of "drug stores" in the commercial capital of Scotland prompted a "Glasgow Herald" columnist recently to hint that perhaps the city was becoming Americanised. As a contributor to the correspondence columns of the paper subsequently pointed out, the true explanation is quite otherwise. In the United States a drug store, although it may contain a soda fountain or other sideline, is also invariably a pharmacy, in the sense that it is under a qualified person who is authorised to compound medicines. Strictly, the qualified man is a pharmacist, though often popularly referred to as druggist, and the word "chemist" is reserved in the United States for persons whose qualification or occupation is in the field of chemical science.

No Pharmacist in Charge

The new Scottish drug stores, on the other hand, while they have none of the sidelines which pharmacists on this side of the Atlantic have come to refer to—no doubt too sweepingly—as inevitable in every American drug store (sandwich, cigar, and postage stamp counters, etc.), equally have not a pharmacist in charge. In Britain the term "drug store" has a slightly derogatory significance and is being resorted to today only with reluctance by owners of businesses which have lost their qualified men on account of the call-up. Such persons are, under the Pharmacy Acts, no longer entitled to use the words "pharmacy," "chemist," and other titles which are statutorily reserved to the qualified. If American visitors find the distinction a little hard to understand—as

well they may in view of the practice in their own country—they are in no wise case than far too high a proportion of their own population, to many of whom "drug store," "pharmacy" and "chemist's shop" are synonymous with one another. They but realise that the "drug store" is almost certainly a business from which a qualified man has been taken away, and would show some concern at the danger of a high proportion of pharmacists who have been taken out of civilian life. The outlets for proprietary medicines have little reduced on the pre-war total, and are curious and no doubt unintended part of the call-up.

Registration of Specialists

THE need for more consultants and a better distribution of their services was mentioned in the Government's White Paper, which did not, however, propose in detail a system of consultant service. One of the aims of the proposed National Health Service would be to encourage more doctors of the right type to enter this branch of medicine or surgery, and to provide means for their training. Local lists of practitioners who fulfil certain conditions of admission to the specialists' register are being compiled by the eleven area committees acting under the supervision of the Central Medical and Academic Council. The criterion for inclusion in the specialists' list during the interim period, for immediate administration, is that the practitioner has acted as a specialist in the past and is generally recognised as a specialist by other practitioners in the area where he practices. Doubtless after the interim period more closely determined conditions will be laid down, but the General Medical Council Committee has not yet determined what it calls the "future consultant (or specialist) status" and has only so far dealt with the interim status. This interim register has the purpose of providing the Government and the municipal and participating voluntary hospitals—i.e. the authorities responsible for organising a service of specialists as part of the National Health Service—with an authoritative and convenient means of ascertaining whether any particular practitioner is eligible to hold

appointment. This register must be liable on a date not later than that on which a service of specialists may be inaugurated as part of the National Health Service. The General Medical Council has decided to represent to the Privy Council that legislation be introduced empowering Council to make and maintain a register of specialists, but more closely determined criteria for admission to the list will doubtless be laid down.

Oil Treatment of Bacteria

PROMISING odourless, greaseless, non-greasy oil treatment for floors, blankets, and bedding that traps germs in hospital wards and barracks, has been developed in researches carried out by medical scientists in the Office of the Surgeon General of the Army, states the Bureau of Public Relations, Washington, D.C. The new oil treatment holds the bacteria and viruses of infectious diseases so tightly they cannot be freed into the air. Details of the new oil-trapping oil treatment, as a major advance in blocking the spread of respiratory ailments, were described by Dr. Oswald H. Robertson, Department of Medicine, University of Chicago. Tests covering 16,000 indicate respiratory ailments can be reduced 28 per cent. by keeping the floors and barracks oiled and soldiers' blanketsregnanted with the oil film.

Actual counts of bacteria floating in the air showed even more remarkable declines. In hospital wards, oiling the floors cuts airborne bacterial counts from 460 to 120 per cubic foot of air—a decrease of 74 per cent. In the bed linen the oil treatment was even more effective. When this was done bacterial counts dropped from 3,500 to 100 per cubic foot of air—a decrease of 90 per cent. When both the floor and blankets were oiled, 97.2 per cent. of the bacteria formerly floated through the barracks were trapped on the oil film. The invisible oil film adds from 1 to 2 per cent. to the weight of the blankets, makes them warmer, leaves them with unchanged appearance, feel, or odour. Tests at the National Bureau of Standards show the oil treatment creates no additional fire hazard in so far as the blankets are concerned.

War Damage to Business Premises

A DEPUTATION of business interests from bombed towns was recently received by the Chancellor of the Exchequer on the subject of the treatment of damaged business premises. The deputation suggested that damaged business premises did not under present arrangements receive the same treatment as damaged houses, since houses were treated under a Treasury direction which enabled a cost of works payment to be made for all houses built after 1914, and for any house built before then which at the time of damage was structurally as good as new and was reasonably equal in design, layout, and amenities to similar houses built after 1914. They asked for a similar direction for business premises.

Sir John Anderson explained that the Treasury direction relating to houses was issued mainly for administrative reasons because of the very large number of such properties, and also because of the strong presumption that the very great majority of those which were good buildings, i.e. which were structurally sound and adequately equipped by modern standards for their purpose and did not represent a wasteful use of the site, should qualify for cost of works payments under the test prescribed in Section 7 of the War Damage Act, 1943, and the War Damage Commission were satisfied, on present evidence, that the test was producing the intended result. The War Damage Commission were quite ready to consider any individual case provisionally classified by them as qualifying for a value payment where the owner had good reason to think such classification wrong. The Chancellor therefore was satisfied that there was equal treatment, and no need for any Treasury direction for business premises.

New Regulations for Penicillin

THE full text of the new regulations, made by the Minister of Health, the Secretary of State for Scotland, and the Minister of Home Affairs, bringing preparations of penicillin under the control of the Therapeutic Substances Act, are published elsewhere in this issue (p. 192). The effect of these regulations, which are designed as a safeguard against the sale of inferior and possibly dangerous preparations, is that penicillin products may not be manufactured for sale except under licence and in conformity with prescribed conditions.

NATIONAL PHARMACEUTICAL EMPLOYEES' UNION

THE annual meeting of the National Pharmaceutical Employees' Union was held in London recently, Mr. G. H. Armitage, M.P.S., in the chair. THE CHAIRMAN reported on the main events of the Union's first year. He told of the Union's good fortune in obtaining very central offices after certain difficulties; of the appointing by the organising committee of a small, conveniently-placed working committee, consisting of the secretary, treasurer, and himself to carry on the more urgent work of the Union; and said great credit was due to Mr. Patchett (acting secretary), who had taken over in September 1943, in the drawing up of the official constitution and rules, which, with the aid of outside experienced advice, had now been completed and submitted to the Registrar.

Increasing Membership

Increasing membership and secretarial work had necessitated the co-option of Mr. L. Melhuish as assistant secretary in January 1944, Messrs. J. R. Jobson and B. J. Phillips, who had done much propaganda work, being co-opted to the organising committee at the same time. Mr. Armitage spoke of the growth of branches throughout the country, and instanced Leicester, where, after efforts had been made by other Unions to form branches, he and Mr. Patchett had been invited to address a meeting. A Leicester and Leicestershire Branch of the N.P.E.U. had been formed, in which many members were enrolled. This, he said, was one of a number of flourishing branches.

J.I.C. Representation

The speaker then referred to the Joint Industrial Council for Retail Pharmacy, and how it came to be set up. He outlined the Union's claim to be represented. Several contacts had been made with the Industrial Relations Officer of the Ministry of Labour, who, while pointing out the advisory nature of the Ministry, assured members of an opportunity of being represented. However, they had not at that time achieved registration. It was felt that the time would not be long delayed when representation on the J.I.C. was secured. Efforts had also been made to obtain representation on the Central Pharmaceutical War Committee. The Pharmaceutical Society affirmed that in its view employees were already adequately represented, and that at this stage further employee repre-

sentation was unnecessary. While no particular quarrel was felt with the working of this body, it was strongly urged that on a point of equity, the Union's request was reasonable, and the committee should continue to press for representation. Mr Armitage expressed confidence that, with the rules accepted and registration as a Trade Union achieved, the Union would make rapid progress.

Accounts Approved

The receipts and payments account was presented, with the auditors' signed statement, by the ACTING TREASURER (Mr. W. M. Rowe), who explained briefly how the chief items were made up. The statement of account showed a healthy balance in hand, as all but the essential outside services had been on an honorary basis. The adoption of the receipts and payment account was moved, seconded, and carried unanimously.

THE SECRETARY then gave a progress report, in which he referred to the demand for speakers from the N.P.E.U., and to report he had received from the Registrar of Friendly Societies and Trade Unions of the rules which had been submitted to him. The Registrar had accepted all the rule with a few slight alterations and addition. These would be dealt with by the organising committee and again submitted in the prescribed form.

Officers and Committee

The following members who had been nominated for the executive committee were declared elected: *Class A*—Messrs. G. H. Armitage, W. Atkinson, K. Austin, J. H. Collis, J. R. Jobson, L. Melhuish, H. Patchett, E. Price, B. D. Phillips, T. Reid, S. Robinson, W. M. Rowe, and W. C. S. Thomas; *Class B*—Miss E. J. Harris, Messrs. E. C. W. Copeman, E. J. Bunkall, R. C. Boorman, and E. J. Young. Messrs. W. C. King (Class A) and C. W. Dawson (Class B) were co-opted to the committee from those present at the meeting.

Messrs. J. Graham, A.C.A., and E. V. Jones, M.P.S., were appointed *Auditor* and Messrs. G. H. Armitage and T. Reid *Trustees*.

THE VICE-CHAIRMAN (Mr. Reid) afterwards addressed an open meeting for employees. There was a good attendance and at the end of the address a number of questions were asked.

EDINBURGH EXAMINATIONS RESULTS

The following candidates have satisfied the Examiners of the Pharmaceutical Society of Great Britain in the Intermediate examination, at Edinburgh, July 1944:—

Adamson, Mary M., Edinburgh. Allanson, n., Bradford. Atkinson, Denys A., Leeds.

Ball, Anthony G., Ormskirk. Barker, Kenneth G., Liverpool. Batey, George D., Leming-on-Tyne. Bellis, Frank W., Ashton-under-lyne. Best, Pauline, Bradford. Bingham, Harold A., Aberdeen. Bowdler, Margaret E., Kidderminster. Burnett, George M., Aberdeen. Capstick, Joan, Liverpool. Cassidy, William , Huyton. Cheetham, Mary W., Liverpool. ark, Frank, Bradford. Clarke, Marshall, Urkle. Coggrave, Charles G., Goole.

Dickinson, Stanley A., Whitley Bay. Doherty, illiam, Bradford. Drake, Henry G., Hudderseld.

Flint, John, Penrith. Forbes, Ian M., Aberden. Fowler, Sylvia, Bradford. Frost, Kenneth J., Birmingham.

Galbraith, Alexander, Glasgow. Grant, Margaret P., Kidderminster.

Hediger, Rene, Hull. Holroyd, Derek, Bradford. Howitt, Raymond M., Aberdeen. Howse, Eric L., Moreton. Hughes, Donald M., Waterhouses. Hutchinson, Charles L., Penicuik.

Kirk, Walton H., South Shields. Kitson, veline M., Ossett.

Lancaster, Norman W., Bradford. Laurie, John T., Glasgow. Lumby, Kenneth, Leeds.

McCallum, John A., Aberdeen. McKeith, illiam, Strathaven. Mackie, James, Willing- n. Maughan, George, Newbiggin-by-Sea. illigan, Joseph H., Liverpool. Minty, Robert , Aberdeen. Moon, Joyce, Gateshead.

Norrie, Janet S. McL., Dundee.

Pace, Patricia A. I., Walsall. Paton, James, rth. Piercy, Wm. L., Darlington.

Raper, Thomas B., Bishop Auckland. richards, Mary, Darlington. Robinson, Elizabeth V., Sunderland. Rogers, Eric T., Birkenhead.

Slack, Irene M., Philadelphia, Co. Durham. Spencer, John I., Bradford. Sutton, Barbara J., verpool.

Tait, William S., Edinburgh. Trasler, Basil, anduino.

Walker, Dorothy, York. Watson, Thomas J., olmont. Welsh, Robert, Harthill. Whittaker, eade M., Rossendale. Wightman, Helen R., onkseaton. Williams, Margaret H., Aber- vey. Williams, Richard A. W., Dolgelly. oodhead, Peter L., Walsall.

The following candidates have satisfied the Examiners in the Chemist and Druggist Qualifying Examination at Edinburgh:—

Abel, John, Aberdeen. Attwood, Eleanor M., dditich.

Beckett, Stanley H., Bradford. Berry, James , Edinburgh. Black, William, Inverurie. oom, Sidney L., Leeds. Brodie, Alexander T., berdeen. Bryce, Andrew, Edinburgh. Bun- n, Robert, Jarrow-on-Tyne. Byron, Gwendol- e M., Walsall.

Caunt, Christine F., Liverpool. Close, Reginald B., Bradford. Coulson, Cuthbert, Newcastle. Currie, Alexander C., Edinburgh.

Davison, Archbold H., Sunderland. Davison, Donald, Consett. Duffelen, Oliver, Bradford. Dunlop, Andrew L., Prestwick. Dyhouse, John B., Northfield, Birmingham.

Edwards, Warwick D., Musselburgh.

Fawcett, Roy R., Middlesbrough. Fisher, Ronald, Leeds. Forshaw, Florence L., Liver- pool. Fox, Marjorie, Sunderland.

Gibson, Peter, Huddersfield. Gray, Alex. J., Kinnear, Aberdeens.

Horner, Robert P., Skipton. Hunt, Frederick J., Dunstone-on-Tyne. Hunter, Edith M., Leeds.

Johnson, Arthur J., York. Johnstone, Mary W., Edinburgh. Johnstone, Rhona E., Ross, Aberdeen. Jones, John E., Colwyn Bay. Kirkbright, Alan, Leeds. Knight, Joan, Liverpool.

Lawson, William, Peterhead. Lyne, John, Llandudno.

McEwan, Robert S. U., Clarkston. Marshall, Frank, Thornaby-on-Tees. Mayer, Joseph, Southport. Milburn, Richard A., Newcastle-on-Tyne. Moar, Albert A., Aberdeen. Morris, Noel, Newcastle-on-Tyne. Mulveal, Kathleen M., Liverpool.

Newby, Donald A., Leeds. Orr, Robert W., Edinburgh.

Panton, Norman A., Aberdeen. Parry, John, Mold. Pearson, Andrew R. W., Edinburgh.

Ray, Leonard S., South Shields. Richards, Ieuan G., Leamington Spa. Ridsdale, Constance, Bradford. Roberts, Kenneth, Leeds. Robinson, Dennis, Leeds. Rodwell, Joseph, Bradford.

Simpson, Mildred B., Aberdeen. Sweeney, Muriel, Halifax.

Thornley, Colin, Bradford. Todd, Andrew, Glasgow.

Wishart, Jean C., Dundee. Wright, Norman H., Keighley.

The following candidates have satisfied the Examiners in the Pharmaceutical Chemist Qualifying Examination:—

Bennett, John A., Manchester. Brennan, James, Forres. Brown, David M., Jedburgh. Clarke, John V., South Shields. Cresswell, Colin T., Oakengates, Salop.

Fox, Edith Barbara, Leeds.

Gadd, Anne, Killearn, Stirlings. Glynn, Harold, Doncaster.

Kenyon, William, Blackburn.

Leaver, Ernest R., Blackpool. Lees, Kenneth A., Ramsbottom, Lancs.

Patteson, Robert W., Sunderland.

Rhodes, Arthur D., Bradford.

Sisson, John, Wallasey. Sunderland, Frank, Hebden Bridge.

Whitehead, Richard W., Ashton-under-Lyne.

More Landings.—The invasion landing in the South of France calls for the salvage of still more waste paper.

MACHINERY AND PLANT NOTES

Vacuum Filling

ALBRO Fillers & Engineering Co., Ltd., Northampton Works, Watson's Road, Wood Green, London, N.22, specialise in the construction of vacuum-operated filling machines. An example is the Albro Junior for filling perfumes or toilet preparations into sprinkler-neck bottles, with an output of ten gross of small bottles hourly.

Scientific Glassware

JAMES A. Jobling & Co., Ltd., Sunderland, are the makers of Pyrex glassware which, having a coefficient of linear expansion of only 0.0000032, is resistant to sudden temperatures and is thus specially suitable for general laboratory glassware. The goods are supplied exclusively through laboratory furnishers, but a copy of the company's "Chemist's Notebook" and an illustrated catalogue will be sent on request.

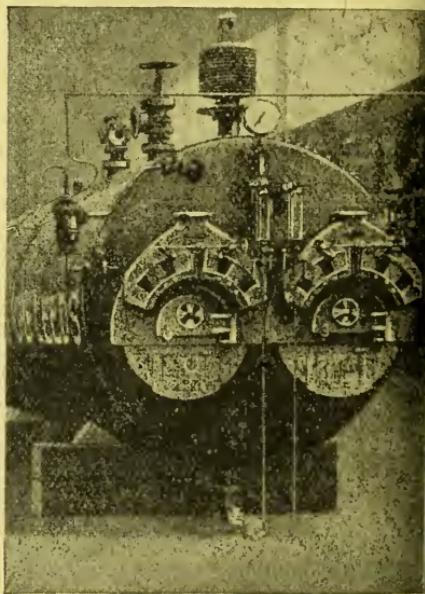
Coal Saving Steam System

CHEMICAL works, large and small, which use a considerable proportion of their total steam requirements in low-pressure process work, are ideal for the operation of pass-out turbines. The low-pressure steam is taken from the turbine at the required low pressure without latent heat of steam loss, whilst the remainder of the steam necessary for the power output passes to the condenser, the whole arrangement being equipped with automatic controls, whilst variations in the process steam are provided without difficulty. Against the ordinary practice of power generation by condensing engines, and the provision of low-pressure process steam through reducing valves from the boiler, the saving in the coal bill is high, averaging, say, 20-30 per cent., and sometimes even more, depending on individual conditions. Specialists in this field are Hick, Hargreaves & Co., Ltd., Bolton, who have, in many installations, made use of existing foundations and the rope drive of a former compound engine. A typical installation consists of a 3,000 B.H.P. pass-out turbine and alternator, of which the boiler pressure is 180 lb. per sq. in. and the superheated steam temperature 530° F. The turbine is designed to pass-out up to 12,000 lb. of steam per hour at a pressure of 2 lb. per sq. in. gauge, the rest of the steam exhausting into a jet condenser provided with the firm's Hivac steam-jet air ejector, and condensate-extraction pump. Replacement of the condensing engine by a pass-out turbine, using a large proportion

of the existing plant to replace the former low-pressure live steam, has resulted in much reduced amount of steam to be generated, with further economy in cost.

Gas Firing for Boilers

IN many smaller industrial establishments it is often a good proposition to use a proportion of town gas for the operation of internally-fired cylindrical steam boilers normally fired by coal or coke. Liptak Furn.



Lancashire type boiler made by Clayton, Son & Co., fitted with Gako units for gas or solid fuel firing.

Arches, Ltd., 68 Victoria Street, London S.W.1, manufacture a range of Gako pressure turbulent burners, which are suitable for small volumes of combustible gas in operating cylindrical boilers as well as large volumes of blast-furnace or similar gas for water-tube and cylindrical boilers, whether for gas firing only or in conjunction with solid and liquid fuel. One general design is the saddle-shaped burner, natural draught. The burners, it should be remembered, embody separate independent valve control of the air and gas supply, which are split up in the burner into a number of thin layers or streams which are given a whirling motion by suitable guides or passages. Operation is by means of natural or forced draught.

LIPARI PUMICE STONE

by Emilie Blackburn

WHEN I visited Lipari, one of the islands south of Sicily, I was impressed by the panorama of Canneto, the port, as seen from sea. I noted one peculiarity—most of houses appeared unfinished. I soon learnt the reason. During summer no rain is but this is made up for in winter when rains may become torrential, forming streams that carry everything before them to the sea. Enormous pumice and pumicite stones are deposited along the route of these streams. These the people gather gradually, year by year, add to their elliings. The whole island consists of ancient volcanoes, and the only natural loitable resources are pumice stone and its acid, both of volcanic origin.

gins of an Industry

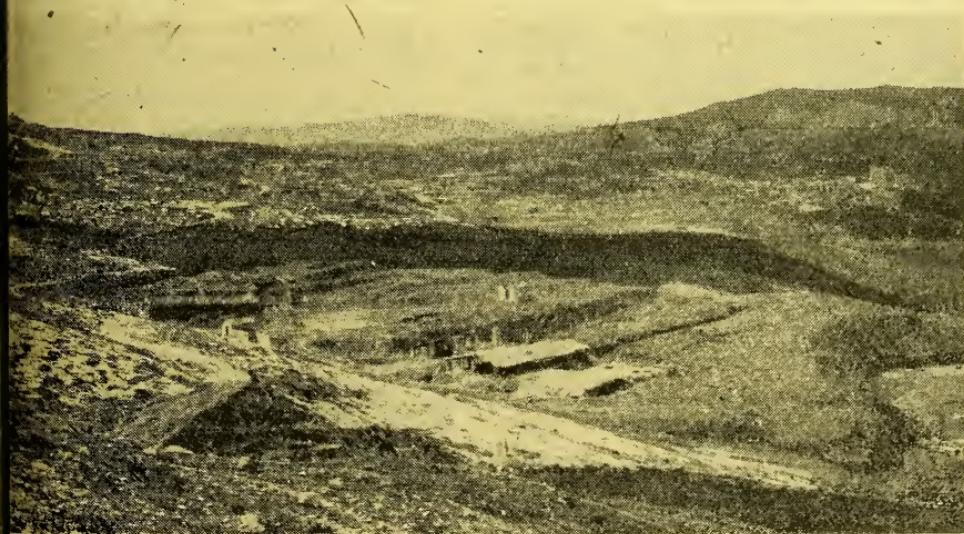
Lipari was first "put on the map" less than 50 years ago by a Continental exporter living there. Previously the stone was shipped to Genoa and exported from there. At around the coast from Lipari was noted a large semi-bay, surrounded by hills. Realising what could be made of this bay, the exporter built a house there—then another. He persuaded others to do the same, and at last the bay became dotted around with small white houses. In due course the trade came when big steamers from America,

Australia, Russia and many other countries came weekly to Canneto to load cargoes of pumice stone, the good qualities packed in cases, the inferior in sacks. Canneto now has 2,000 inhabitants, and is quite prosperous.

Volcanic Glass

Pumice, sometimes referred to as volcanic glass, is almost liquid at the moment of effusion from the volcano, but cools so rapidly that it has no opportunity to crystallise. During solidification vapours dissolved in it are released which cause the mass to swell up into a froth which immediately solidifies. Pumices may be of any colour from white to black. In Lipari the best are obtained from Monte Pelato and Monte Chirica. The rock is brought round the coast by boat to Canneto for sale to exporters, who pay a tax of so much per case to the Government. On these barren, stony hills nothing grows except wild prickly figs. Everything eatable—flour, fruit, meat, vegetables—has to come from Sicily. Instead of water the inhabitants drink wine, the supply of the former being very short at some periods of the year.

The boric acid industry in the Lipari islands has been previously referred to in these columns (*C. & D.*, 1943, II, 226).



SULPHUR DEPOSITS IN SICILY.—View of part of the sulphur mining area at Castelvetrano. A note on the production of sulphur in Sicily was included in an article "Italy as Drug Source" in the *C. & D.*, August 28, 1943, p. 226.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, August 16

THE lack of interest usually associated with the holiday season is once again evident in the London drug and chemical markets. As a consequence business is mainly confined to the turnover of small quantities of articles required for immediate consumption. With one or two minor exceptions, prices show practically no change on the week. In PHARMACEUTICAL CHEMICALS makers report a steady but small business, with no price alterations. A slight liveliness is noticeable in a few items in the CRUDE DRUGS section, but generally business is exceedingly quiet. There are still no offers of Cape ALOES: Curaçao is scarce but supplies are reported to be coming along. Position and prices of BALSAMS are unchanged. A very good inquiry has been received for BENZOIN but supplies are not easy to find. CLOVES and other spice products are steady at previously quoted rates. ERGOR is very firm for shipment. Some Nicaraguan IPECACUANHA is reported to be coming along. JABORANDI is scarce, but the price is unchanged. The good demand recently experienced for MENTHOL is maintained, but supplies are practically impossible to locate. RHUBARB is tending dearer: demand is good. Little activity is reported for imported SEEDS. VALERIAN ROOT is inclined to be dearer. ESSENTIAL OILS are quiet. A new price schedule for oils imported by the Ministry of Food, and contained in circulars Nos. 10 and 11, issued by Allocations Control, is given on p. 206. These circulars, together with circular No. 12, contain instructions on various matters appertaining to the control of essential oils.

Pharmaceutical Chemicals

ACETANILIDE.—Crystals are quoted at 2s. 5d. per lb. and powder at 2s. 6d.

ALLOBARBITONE.—Makers continue to quote at 6s. per lb.

AMPHETAMINE.—Makers' prices are steady at 15s. per lb.

ATROPINE.—Makers' quotations are steady at the following rates per oz.: ALKALOID, B.P.—1 oz., 35s.; 4 oz., 34s. 6d.; 25 oz., 34s. SULPHATE, B.P.—1 oz., 28s.; 4 oz., 27s. 6d.; 25 oz., 27s. METHYL BROMIDE and METHYL NITRATE, 1 oz., 65s.

BARIUM SULPHATE, B.P. (x-ray).—Quoted at

the following rates per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BORAX.—Makers' current rates are changed: B.P. quality, granulated, £42 ton; crystal, £43; powder, £43 10s. Packaged one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards. Commercial grades, £8 per ton less.

BRUCINE.—Current rates per oz. are follows: ALKALOID.—Under 25 oz., 1s. 4½ oz. and under 100 oz., 1s. 4d.; 100 oz. under 500 oz., 1s. 3½d. NITRATE AND SULPHATE.—Under 25 oz., 1s. 3½d.; 25 oz. and under oz., 1s. 3d.; 100 oz. and under 500 oz., 1s.

CITRATES.—Makers quote POTASSIUM per in 28 lb.—1 cwt. lots, as follows (container brackets): 3s. 3½d. (1-lb.); 3s. 2d. (4-lb.); 1s. 1d. (7-lb.); 3s. 0½d. (14-lb.); 3s. (28-lb.). IRON AND AMMONIUM (SCALES), B.P., is 3s. per lb. above, and SODIUM is at 1d. per lb. below these prices; POTASSIUM AND SODIUM POWDER, 1d. per lb. extra.

CODEINE.—Makers' prices per oz. are follows: ALKALOID.—½ oz., 48s. 3d.; 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 6d.; 4 oz., 43s. 3d. HYDROCHLORIDE.—½ oz., 42s.; 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; 4 oz., 37s. PHOSPHATE.—½ oz., 37s. 9d.; 1 oz., 35s. 2 oz., 33s. 9d.: 3 oz., 33s.; 4 oz., 32s. 9d.

CREAM OF TARTAR.—Controlled prices for smaller quantities are as follows: Less 7 lb., 2s. 10s. per lb.; 7 lb.—14 lb., 2s. 9d.; 14 lb.—28 lb., 2s. 9d. For the full schedule C. & D., May 20, p. 555.

DEXTOSE.—Current prices per lb., in 28 lb.—1 cwt., are as follows (container brackets): 1s. 2½d. (1-lb.); 1s. 1½d. (2-lb.); 1s. 0½d. (4-lb.); 1s. 1½d. (7-lb.); 1s. 1½d. (14-lb.); 1s. 1½d. (28-lb.).

ETHYLMORPHINE.—Quotations per oz. in quantities remain as follows: ALKALOID, ½ oz., 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; 4 oz., 46s. HYDROCHLORIDE, ½ oz., 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s.; 4 oz., 38s.

LACTATES.—Prices are unchanged as follows: LACTIC ACID.—Six-winchester lots, 2s. per lb.; smaller quantities, 2s. 1½d.

CALCIUM SODIUM LACTATE.—Powder, small 3s. 5d. per lb.; 14-lb., 3s. 2d.; 28-lb., granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Main home market prices per lb., in quantities 28 lb.—1 cwt., are as follows (container brackets): 1s. 3½d. (1-lb.); 1s. 2d. (4-lb.); 1s. 1d. (7-lb.); 1s. 0½d. (14-lb.); 1s. (28-lb.). Prices net one month.

MERCURY IODIDES.—The following are makers' prices per lb.: **RED**, less than 7 lb., 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. **GREEN**, less than 7 lb., 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. **YELLOW**, less than 7 lb., 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

HERNOLPHTHALEIN.—No change in makers' es, as follows: Less than 7 lb., 4s. 6d. per 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; vt., 4s. 2d.

ERpineol.—The price of pure medicinal ity is steady at from 3s. 3d. to 4s. per lb., antisepsics of the chloroxylenol type.

Crude Drugs

LOES.—There are still no offers of Cape. aço is scarce on spot at 500s. per cwt.

RECA NUTS.—Dealers can offer some wormy on on spot at the unchanged price of 105s. cwt., ex store.

ALSAMS.—Peru is quoted on spot at 7s. 9d. lb., and Canada at 9s. 9d. to 10s.; *Tolu* *Copaiba* are unobtainable.

ELLADONNA.—Indian leaf, nominal on spot s. 3d. per lb.; Indian root testing 0.36 per is. offered at 330s. per cwt.

ENZOIN.—In very good inquiry. Sumatra, available, would be worth £40 per cwt., and 1 almondly block, £45.

AMPHOR.—Small supplies of Chinese crude be obtained by approved users at 10s. per and B.P., in similar quantities, at 11s. 6d.

ARDAMOMS.—Aleppy greens may be obtained pot at 5s. 6d. per lb., and Aleppy seed at d.; split seed, 5s. 6d.

IAULMOGRA.—*Hydnocarpus*, spot, 1s. 6d. b. in tins in cases.

HILLIES.—Mombasa is offered on spot at per cwt.

LOVES.—Zanzibar may be obtained on spot 4½d. per lb. No other varieties are offered.

COCA BUTTER.—No change in the official l price of 1s. 5½d. per lb., ex factory or house. Sales above that price may be made er Ministry of Food licence.

CONUT (DESICCATED).—Controlled price is aanged at 49s. per cwt.

GITALIS LEAVES.—Portuguese leaf continues e available on spot at 140s. per cwt. ish-grown leaf, 2s. 6d. per lb.

RAGON'S BLOOD.—Dull Zanzibar drop is inal at £25 per cwt.

ROT.—Very firm for shipment with price bout 6s. per lb., c.i.f.; for spot material, if able, 6s. 6d. would be wanted.

IM ACACIA.—Kordofan cleaned sorts is ed on spot at 80s. per cwt.; bleached, ment, 140s. per cwt., c.i.f.; spot, 185s. a, cleaned, 50s. per cwt., landed.

ENBANE.—Indian leaf is quoted at from to 275s. per cwt., according to holder;

some material showing a low test may be had at 1s. per lb.; Russian leaf, 350s. per cwt.

IPECACUANHA.—Some Nicaraguan is reported to be coming along.

JABORANDI.—Supplies are small, but the price is unaltered at 52s. 6d. per cwt.

KAMALA.—Material with 6 per cent. ash would be priced at 2s. per lb.

LIQUORICE ROOT.—Russian material for pharmaceutical use is available at 85s. per cwt.; single-peeled Syrian, in small supply, at 110s. per cwt., subject to D.M.S. approval.

MENTHOL.—Good demand continues but no supplies appear to be available.

MERCURY.—Official quotations range from £68 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and re-distilled grades.

MYRRH.—Spot price of Aden sorts remains at £20 per cwt., but supplies are small.

NUTMEGS.—West Indian, wormy and broken, spot, 1s. 5d. per lb.; sound unassorted, 1s. 7½d.

NUX VOMICA.—Cochin, spot, 42s. 6d. per cwt.; shipment, 35s., c.i.f.; Cocanada seed, shipment, 32s. 6d. per cwt., c.i.f.

PEPPER.—Maximum prices of whole pepper, not picked over or cleaned, on sale to processors, 1s. 4d. per lb. for white and 1s. per lb. for black, both duty paid.

PIMENTO.—Sellers on spot at 1s. 4d. per lb.

QUASSIA.—Spot price is steady at 37s. 6d. to 40s. per cwt., according to quantity.

QUILLIA BARK.—Crushed or cut, spot, 90s. per cwt.; natural, 75s.; shipment, 65s., c.i.f.

RHUBARB.—In good demand and rather dearer. Rough-round and flat high-dried would both be worth from 11s. 6d. to 12s. per lb.; Shensi irregular shapes, 14s. per lb.

SEEDS.—Little activity in this section, with prices of all varieties unchanged. Current rates are as follows: **CORIANDER.**—Indian, 75s. per cwt. **CUMIN.**—Maltese, spot, 105s.; Indian, 100s. **DILL.**—125s., ex wharf. **FENNEL.**—Offered at 85s. **FENUGREEK.**—May be had at 80s. **MUSTARD.**—Controlled prices are unchanged.

SENNA.—Alexandrian medium pods are at 4s. per lb.; Tinnevelly, manufacturing grade, 6d. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevelly, No. 1, 9d. to 10½d.; No. 2, 7d.; No. 3, 5½d. to 6d.

SQUILL.—Indian, spot, 60s. per cwt.; Portuguese, 75s.

STRAMONIUM LEAVES.—Offers of East Indian on spot at 80s. to 85s. per cwt.

STROPHANTHUS SEED.—100 per cent. Kombé seed may be obtained on spot at 7s. to 7s. 6d. per lb., according to quantity.

TRAGACANTH.—Prices of the medium grades are unchanged as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30;

red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

TURMERIC.—Sound-quality Madras finger is quoted on spot at 57s. 6d. per cwt.

VALERIAN ROOT.—Indian root on spot is inclined to be dearer at 100s. per cwt.

WAXES.—BEES'.—Supplies may be obtained only through members of the Association of Merchant Distributors of Beeswax; official prices are as follows: Crude, 260s. to 290s. per cwt.; refined, 315s. to 355s.; bleached, 340s. to 370s.; Calcutta, crude, 250s. to 270s.; Calcutta, bleached, 325s. to 355s. **CARNAUBA.**—Fatty grey, 440s. per cwt., ex store, in minimum one-bag lots; shipment, 390s., c.i.f.; Primeira, 525s. to 540s. per cwt., ex store, nominal; shipment, 475s., c.i.f.; medium yellow, 530s., nominal; chalky grey, 430s., nominal; shipment, 377s. 6d., c.i.f. (c.i.f. prices include $\frac{1}{2}$ per cent. W.R.I.). **CANDELILLA.**—Under 1 ton, 220s. per cwt.; 1-5 tons, 217s. 6d.; 5 tons and over, 215s., ex store. **OURICURI.**—Spot, 290s. to 330s. per cwt., as to quality.

Essential and Expressed Oils

ANISE (STAR).—Prices are nominal in the region of 160s. per lb.

CASTOR.—Official quotation for firsts is £92 per ton, and that for seconds, £90, both naked ex works, in bulk quantities.

CINNAMON.—Any available supplies of leaf oil would be worth around 13s. 9d. per lb.

CLOVE.—English distillers continue to quote at 11s. 6d. to 12s. per lb., according to quantity.

COCONUT.—Bulk quantities of refined deodorised are officially priced at £49 per ton, and refined hardened deodorised at £53.

COTTONSEED.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works.

EUCALYPTUS.—Supplies are short. Oil containing 70 to 75 per cent. cineole would be worth approximately 7s. 6d. per lb.

GROUNDNUT.—Bulk supplies are officially priced as follows: Refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £63; all naked ex works.

LINSEED.—The official bulk price of crude was recently advanced by £2 per ton to £62 per ton, naked ex works.

NUTMEG.—English distillers' quotations remain at 35s. per lb., with lower rates for quantities.

OLIVE.—Edible oil is quoted at 25s. 9d. per gallon (9 lb.), ex store.

PALMAROSA.—Any available small spot supplies would be worth about 55s. per lb.

PEPPERMINT.—The price of any available small quantities would be in the region of 190s. per lb.

RAPESEED.—Official quotation for bulk quantities is steady at £85 per ton, naked ex works.

Controlled Essential Oils.—The Advisory Committee of the Essential Oils Control announced the following prices which effective under the 1944 programme. The prices cancel all those previously advised. Other prices will be fixed from time to time:

Bergamot	23s. 10d.
Camphor	2s.
Coriander	128s. 10d., plus du 11s. 6d.
Fennel	11s. 6d., plus du 1s.
Lemon oil, distilled	11s. 9d.
Lemon oil, cold- pressed or Sicilian	17s. 4d.
Peppermint	37s.
Pine needle	13s. 1d., plus du 1s. rd.
Tangerine	33s.
Vetivert	38s. 4d., plus du 3s. 5d.
Wormseed	15s. 3d.

Purchase tax applies to wormseed oil and the amount of such tax will form an addition to the price to the user. The price on the to a user will be increased by the author charges for breaking bulk.

TRADE MARKS

(From "The Trade Marks Journal," August "JAN"; for toilet creams for the skin (3).

JANTZEN Knitting Mills, c/o F. J. Cleve & Co., 29 Southampton Buildings, Chan Lane, London, W.C.2. 627,729.

"**SHPUSS**"; for toilet preparations for the and shampoos (3). By Vine's, 22 Harrow Road, Paddington, London, 628,904.

"**PROCILLONE**"; for antiseptic preparations (5). By P.A.C. Photographic Accessory Chemicals, Ltd., 15 College Road, Epsom, Surrey. 628,153.

"**KEMISAN**"; for medicated toilet rolls, etc. By Kemland, Ltd., Portland Grove, Heaton Moor, Stockport. 628,475.

"**ARMORTONE**"; for pharmaceutical preparations (5). By Armour & Co., Ltd., Martin's-le-Grand, London, E.C.1. 628

"**AMOPAXA**"; for pharmaceutical preparations (5). By Amovon, Ltd., Southfield 1 Bradford, Yorks. 629,132.

"**PLESOLAX**"; for laxatives (5). By G. Laboratories, Ltd., 108 Mortlake F. Kew, Surrey. 629,313.

"**SEVKO**"; for gutta percha, indiarubber (17). By Gillibrands Rubber Manufact. Ltd., Grimshaw Park, Blackburn, Lancashire. 629,266 (Associated).

"**SAMSON**"; for brushes, combs, etc. (21). Westminster Brush Co., Ltd., 9 Hanover Road, St. Albans. 623,955.

"**PATHFINDER**"; for combs, sponges, brushes, etc. (21). By Kay & Kay, Ltd., 3 Richardson Street, London, S.E.1. 628

COMMERCIAL NOTES

J.S. Drug Production.—Penicillin production in the United States in 1943 totalled 92 million Oxford units, or enough to treat 21,092 patients. In the same year the production of sulphonamide drugs totalled 50,330 lb. against 5,434,427 lb. in 1942. Urethane acid amide production reached 1,087 lb., against 70,257 lb., and riboflavin production increased from 16,381 lb. in 1942 to 73,640 lb. in 1943. Aspirin production was slightly under the 1942 figure, amounting to 8,557,173 lb. A tentative monograph on penicillin sodium has been drafted by the J.P. Revision Committee.

J.S. Potash Production.—Output of potassium salts from U.S. mines was increased to 30,000 tons in 1943. An announcement by the Bureau of Mines states that "the present producing capacity of the domestic ash mines is more than enough to meet for normal domestic requirements under post-war peace-time conditions." Increased potash production is also reported in Palestine (Dead Sea), Russia (U.S.S.R.), Spain, China, Australia, and Chile. Ash deposits in all these countries are estimated to be greater in total than those of Germany and Alsace.

Sulphuric Acid Production in U.S.—The War Production Board of the United States announced recently that sulphuric acid production has reached a new high level with a total capacity now estimated at approximately 9,300,000 tons a year. In addition, new facilities with an estimated capacity of 800,000 tons yearly are under construction. The total present capacity of private production by the user is estimated by War Production Board officials to be approximately 706,000 tons a month, or 8,475,000 tons a year. Plants in this category now under construction and expected to be completed by the fourth quarter of 1944 are expected to increase the figures by 66,500 tons a month, or 800 tons a year, excluding ordnance plants. Plants producing sulphuric acid for export are reported operating at over 100 per cent. rated capacity.

Future of British Plastics.—In an address to the Institute of Plastics Industry in London recently, Dr. W. J. Warboys (Imperial Chemical Industries, Ltd.) stated that the major plastic materials now manufactured in the United Kingdom, and the materials commonly used, phenol, oil, and benzene were coal-tar-distillation products, while methanol, formalde-

hyde, urea, and nitric acid were products of the synthetic nitrogen industry, which itself was based on coal. They should thus be available in required quantities and at prices to enable Britain to compete anywhere in the world. Many newer plastic materials appearing on the American market were based on less common organic chemicals derived from the oil industry, but it should not be assumed that Britain was necessarily excluded from any new developments because she had no oil industry. There was often more than one route to the preparation of a given organic chemical.

MISCELLANEOUS INQUIRIES

Acute Catarrhal Nasopharyngitis.—*E.F.B.*—This is simply the common cold in the language of the Medical Corps of the Army of the United States.

Hæmorrhoids.—*A. S.*—The size and turgescence of hæmorrhoids is certainly influenced by the daily intake of fluids, and a reduction of the daily amount of fluids to two pints may have a beneficial effect.

Triple Dye for Burns.—*C. B.*—The solution now used is a mixture of equal volumes of gentian violet (2 per cent.), brilliant green (2 per cent.), and acriflavin (1 per cent.). The preparation is painted on the burned area, allowed to dry, and the painting repeated. A weaker solution was formerly in use, but the serous exudate was found to wash away the dye before a coagulum was formed.

Vanilla Essence.—*A. H. P.*—The description "essence of vanilla" can be used only for a preparation made from the beans, the standard strength being 10 per cent. If made from a synthetic product it may be labelled "imitation vanilla extract" or "vanillin flavouring" or "vanillin essence." There is no official standard for these preparations, but they must be "true to name."

Moth-proofing Furs.—*A. B. K.*—The basis of a recently-introduced method of moth-proofing keratinous fibrous materials is understood to be immersion in a saturated solution of common salt with 1 per cent. formaldehyde and 1 per cent. hydrochloric or sulphuric acid. The fleshed skins are placed in a bath of the solution at 25°-35° C. for two days, then removed, freed from the solution as thoroughly as possible, the flesh side painted with mineral oil, and the skins dried at atmospheric temperature. The salt is then removed by gentle brushing.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Queensland—A Land of Opportunities

SIR.—To an Australian pharmacist resident in this country, your issue of July 8 (p. 45) was extremely gratifying, and I am exceedingly anxious to endorse what appeared there. . . . First of all it should be known that there is full reciprocity between each State of the Commonwealth and Great Britain, so any qualified pharmacist will enjoy perfect freedom in Australia immediately after paying the small registration fee. The practice of pharmacy in the cities and their suburbs is very similar to that in England, with one distinct advantage, and that is that the average Australian medical man does not dispense. Furthermore, he is in much closer contact with the pharmacist.

Further out in the smaller towns and the "outback" the scope is nearly unlimited, and as the country is opened up on a big scale in the years subsequent to the war (as it assuredly will be) the pharmacist will act as a pioneer. I had my first experience of the "back blocks" in 1923 when at nineteen years of age and just qualified I accepted a locum post in the far west of New South Wales. Although an inexperienced youngster, I well remember my employer as he handed over the shop to me prior to taking his leave, impressing on me the need to be ready to deal with any emergency ranging from a fractured limb to a confinement.

Prescribing is a very great feature of the work in the "outback" and if wisely done can prove very lucrative. The people depend to a surprisingly large extent on the advice of the pharmacist, and to the right sort of man this can prove extremely interesting. Owing to the nature of the country there is considerable scope for pharmacists with a knowledge of ophthalmics. Although to the average Australian, social status does not count for much, yet I can assure the reader, from long experience, that the Australian pharmacist (particularly outside the cities) enjoys much more respect than his opposite number does in Great Britain. Climatic conditions should also prove a great attraction for those reared in Britain. In the middle of winter in Southern Queensland the day temperature is as pleasant as early summer in England. Again, further south on the coast of New South Wales, I have worked in a pharmacy constructed

of corrugated iron, within fifty yards a glorious beach on which the Pacific constantly thundered. Immediately at back of the shop the Australian bush stretched for many miles over practically trackless mountainous country, the "gully" supplied by lovely streams "creeks" composed of crystal-clear pure fresh water bubbling over rocks on a sand bed. This bush during the summer months is heavy with the most exotic perfume distilled into the air by numerous types of native wild flowers. Could the most exacting ask for more pleasant surroundings? Let me then gather up these fragmentary remarks. Australia holds everything to satisfy the enterprise of the ambitious, courage of the pioneer and the longsighted of the visionary, and lover of natural beauty.

DAVID O. EVANS
London, W.1.

Broadcasting Trivialities

SIR.—The protest of Mr. H. Ridehalgh regarding a recent broadcast from Scottish pharmacy (*C. & D.*, August p. 182) is justified. B.B.C. programs (with some exceptions) give the impression that they are devised by amateurs, amateurs, and that everything in them has been made as "snappy" as the most hardened errand-boy can desire. Probably bright young people at the B.B.C. who up the turn referred to thought they were bringing up to date Burns's well-known poem about "Dr. Hornbook." Pharmacists need to be very much on their guard if they offer their services for this type of entertainment, and should insist on having a script of any proposed broadcast "vetted."—I am, etc.

CARPE DIEM

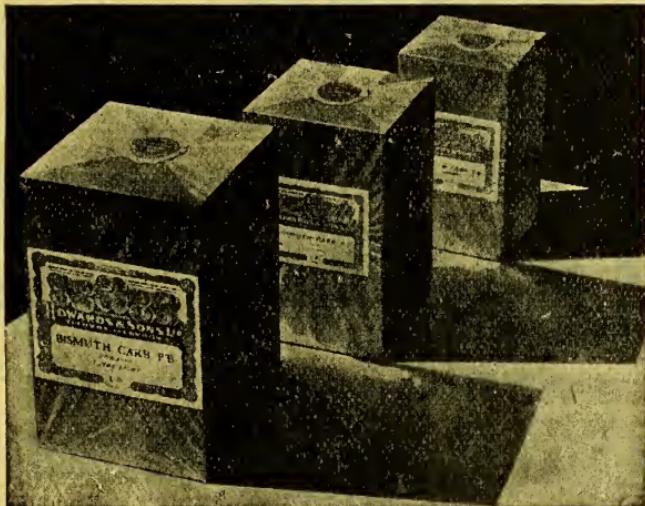
COMING EVENTS

Sunday, August 20

MANCHESTER PHARMACEUTICAL ASSOCIATION
—Ramble. Meet Central Station, 8.30 a.m. Book Hope return. Inquiries to W. Edward, Old Trafford.

CLOSED ON SATURDAYS.—Advertisers are reminded that owing to conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C. 2, is closed on Saturdays until further notice. Urgent instructions relating to advertising subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

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ADVANCE

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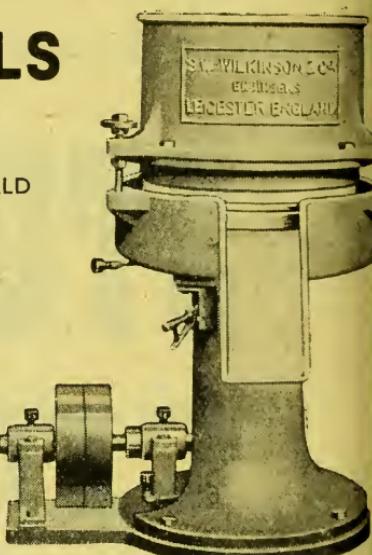
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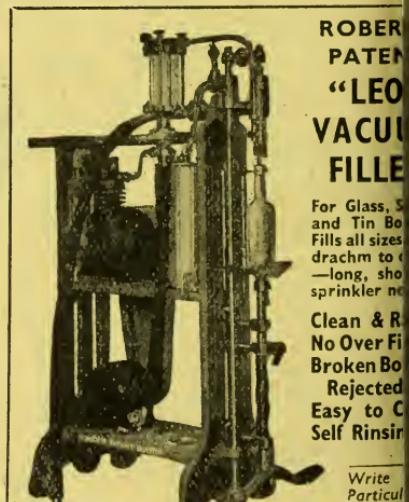
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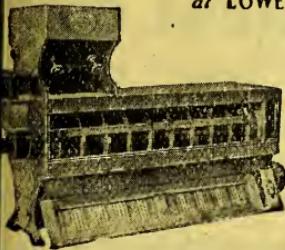
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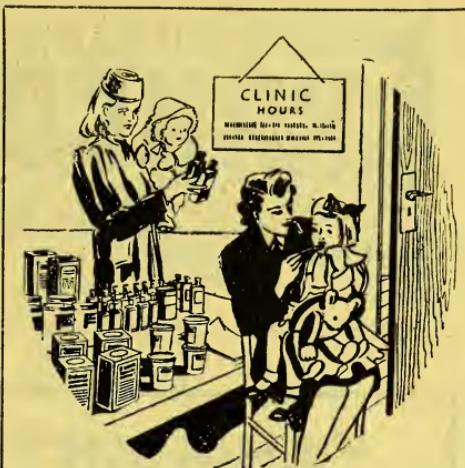
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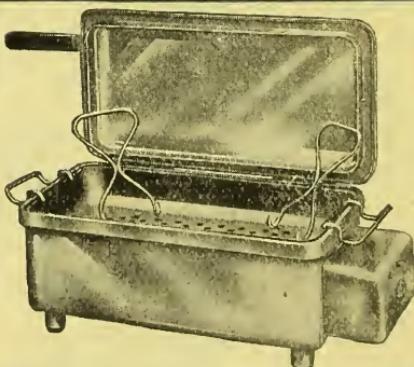
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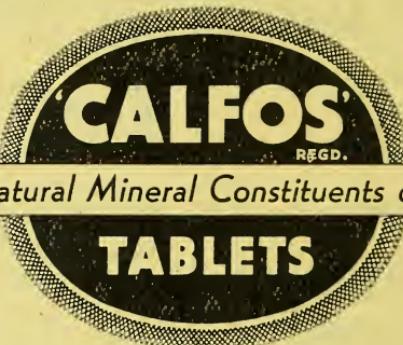
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SUPPLEMENT

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28 ESSEX STREET, LONDON, W.C.2

AUGUST 19
1944

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